Advanced Disposal

Glacier Ridge Landfill

Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 2/26/16 **Inspected By:** (print name) Jake Mergelofsky **Date of Previous Inspection:** 1/28/16

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

"The permittee shall conduct monthly inspections of closed landfill areas that contain gas extraction wells for equipment malfunctions, cap cracks, erosion, vegetable distress, and any other visible signs of needed cover maintenance, and implement cover repairs as necessary"

North Hill (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			
Notes					

LGRL (Hechimovich Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			
Notes					
Gas system removed. Majority of waste has been excavated from the landfill in accordance with the waste relocation plan					

2/26/16
Date

JM
Inspector's Initials

South Expansion (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			

Notes

Area of 2015 final cover needs seeding when weather permits

South slope that was reclaimed needs topsoil and seeding in spring

Advanced Disposal

Glacier Ridge Landfill

Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 3/28/16 **Inspected By:** (print name) Jacob Mergen **Date of Previous Inspection:** 2/26/16

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

"The permittee shall conduct monthly inspections of closed landfill areas that contain gas extraction wells for equipment malfunctions, cap cracks, erosion, vegetable distress, and any other visible signs of needed cover maintenance, and implement cover repairs as necessary"

North Hill (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			
Notes					

LGRL (Hechimovich Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			
Notes					
All waste has been removed in accordance with the waste relocation Plan					

3/28/16
Date

JM
Inspector's Initials

South Expansion (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			

Notes

2015 Cap area needs seeding when weather permits

South slope needs seeding, (Slope was reclaimed & clay added.

Some areas will need spot seeding where erosion took Place

Advanced Disposal

Glacier Ridge Landfill

Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 4/27/16 **Inspected By:** (print name) Jake Margelofsky **Date of Previous Inspection:** 3/28/16

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

"The permittee shall conduct monthly inspections of closed landfill areas that contain gas extraction wells for equipment malfunctions, cap cracks, erosion, vegetable distress, and any other visible signs of needed cover maintenance, and implement cover repairs as necessary"

North Hill (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			
Notes					

LGRL (Hechimovich Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			
Notes					
All waste removed as part of LGRL waste relocation plan					

4/27/16
Date

JM
Inspector's Initials

South Expansion (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction.	No	(Yes)	113	Needs discharge line extended	

	Defects Found		Coordinates	Description of Defect	Date of Correction
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			

Notes

Area above cap needs seeding as soon as 2016 LFG Improvements are completed

Lower portion on west side of cap has been seeded and mulched

South ~~slope~~ slope & top of cap need grading & seeding once Improvements are completed

Advanced Disposal

Glacier Ridge Landfill

Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 5/4/16 + 5/14/16 **Inspected By:** (print name) Jake Margelofsky **Date of Previous Inspection:** 4/27/16

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

"The permittee shall conduct monthly inspections of closed landfill areas that contain gas extraction wells for equipment malfunctions, cap cracks, erosion, vegetable distress, and any other visible signs of needed cover maintenance, and implement cover repairs as necessary"

North Hill (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			
Notes					

LGRL (Hechimovich Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes					

Page 2

5/4 & 5/14
Date

JM
Inspector's Initials

South Expansion (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	(Yes)		Tightened compression fittings	
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			

Notes

Area above cap was seeded. Area west of access Road is being topsoiled

North Slope is being graded & will be recieving topsoil soon

Advanced Disposal

Glacier Ridge Landfill

Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 6/20/16 **Inspected By:** (print name) Jake Margelofsky **Date of Previous Inspection:** 5/4 & 5/14/16

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

"The permittee shall conduct monthly inspections of closed landfill areas that contain gas extraction wells for equipment malfunctions, cap cracks, erosion, vegetable distress, and any other visible signs of needed cover maintenance, and implement cover repairs as necessary"

North Hill (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			
Notes					
Grass on hill has been mowed					

LGRL (Hechimovich Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes					

Page 2

6/20/16
Date

JM
Inspector's Initials

South Expansion (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			

Notes

Some areas that received seed are starting to take

Additional topsoil has been added and is awaiting seed when weather permits

Additional Clay soil was placed by wells 007 & 108

Advanced Disposal

Glacier Ridge Landfill

Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 7/27/16 **Inspected By:** (print name) Jake Marcelofsky & Ryan Daniels **Date of Previous Inspection:** 6/29/16

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

"The permittee shall conduct monthly inspections of closed landfill areas that contain gas extraction wells for equipment malfunctions, cap cracks, erosion, vegetable distress, and any other visible signs of needed cover maintenance, and implement cover repairs as necessary"

North Hill (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			
Notes					

LGRL (Hechimovich Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes					
Excavated					

Page 2

7/27/16
Date

JM
Inspector's Initials

South Expansion (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	No	(Yes)		Small seep by access Road. Area wet but liquid not breaching surface	7/27/16

Notes

Dug out area along road that was wet. Placed stone in it and covered with clay.
↳ Top of Phase 6 area

Advanced Disposal

Glacier Ridge Landfill

Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 8/18/16 **Inspected By:** (print name) Jake Marquardsky **Date of Previous Inspection:** 7/27/16

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

"The permittee shall conduct monthly inspections of closed landfill areas that contain gas extraction wells for equipment malfunctions, cap cracks, erosion, vegetable distress, and any other visible signs of needed cover maintenance, and implement cover repairs as necessary"

North Hill (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			
Notes					

LGRL (Hechimovich Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes					
Gone - Relocated into South East Expansion					

8/18/16
Date

JM
Inspector's Initials

South Expansion (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			

Notes

No seeps noted during walk around some erosion on recently placed topsoil that will need to be backdragged prior to seeding

Advanced Disposal

Glacier Ridge Landfill

Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 9/28/16 **Inspected By:** (print name) Jake Muegelsky **Date of Previous Inspection:** 8/18/16

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

"The permittee shall conduct monthly inspections of closed landfill areas that contain gas extraction wells for equipment malfunctions, cap cracks, erosion, vegetable distress, and any other visible signs of needed cover maintenance, and implement cover repairs as necessary"

North Hill (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			
Notes					

LGRL (Hochimovich Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes					
Relocated into south expansion					

Page 2

9/28/16
Date

JM
Inspector's Initials

South Expansion (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	No	(Yes)		Silt in Ditch west side of landfill	

Notes

Also some erosion on south slope of landfill that will need to be addressed prior to seeding.
South Ditch needs to be cleaned when ~~weather~~ weather allows (Possibly once froze)

Advanced Disposal

Glacier Ridge Landfill

Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 10/13/16 **Inspected By:** (print name) Jacob Margelofsky **Date of Previous Inspection:** 9/28/16

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

"The permittee shall conduct monthly inspections of closed landfill areas that contain gas extraction wells for equipment malfunctions, cap cracks, erosion, vegetable distress, and any other visible signs of needed cover maintenance, and implement cover repairs as necessary"

North Hill (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			
Notes					

LGRL (Hechimovich Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes					
Relocated into Southeast expansion					

10/13/16
Date

JM
Inspector's Initials

South Expansion (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	(Yes)	110	Vacuum Pinched	
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	No	(Yes)		See below	

Notes

South slope has some erosion in area where extra clay was placed

Advanced Disposal

Glacier Ridge Landfill

Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 11/30/16 **Inspected By:** (print name) Jacob Margelofsky **Date of Previous Inspection:** 10/13/16

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

"The permittee shall conduct monthly inspections of closed landfill areas that contain gas extraction wells for equipment malfunctions, cap cracks, erosion, vegetable distress, and any other visible signs of needed cover maintenance, and implement cover repairs as necessary"

North Hill (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			
Notes					

LGR Ł (Hechimovich Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes					
Relocated into South expansion					

11/30/16
Date

JM
Inspector's Initials

South Expansion (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			

Notes

South Slope has waste being placed on the southeast side. Fixed some erosion that was in the area.

Jumper line has been installed to wells 110 & 119

Advanced Disposal

Glacier Ridge Landfill

Horicon, WI

Cover Integrity
Monthly
Inspection Worksheet

Date of Inspection: 12/27/16 **Inspected By:** (print name) Jake Margolefsky **Date of Previous Inspection:** 11/30/16

Reference:

April 4th, 2007 | Construction Air Permit Number: 03 – SDD – 281 | (page 19)

"The permittee shall conduct monthly inspections of closed landfill areas that contain gas extraction wells for equipment malfunctions, cap cracks, erosion, vegetable distress, and any other visible signs of needed cover maintenance, and implement cover repairs as necessary"

North Hill (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	(No)	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	(No)	Yes			
Notes					
final Cover in good shape					

LGRL (Hechimovich Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	No	Yes			
Notes					
Relocated into South expansion					

Page 2

12/27/16
Date

JM
Inspector's Initials

South Expansion (Glacier Ridge Landfill)	Defects Found (circle one)		Well ID No.	Description of Defect	Date of Correction
Inspect all gas extraction wells for damage / malfunction	No	Yes			
	Defects Found		**Coordinates**	**Description of Defect**	**Date of Correction**
Inspect cover soils and vegetation for signs of distress - e.g. - dead vegetation, cracks, erosion, animal burrows, weather related	No	(Yes)	North of GE120	Small area ~~with~~ soft with Gas bubbling	12/27/16

Notes

Seep north of GE120 repaired
Several Areas will need topsoil + seed come springtime
Phase 8 south slope has had intermediate cover placed on it

Attachment E-2

Litter Control Tracking

GRL 2016 Litter Control Tracking

Jan-Apr 2016

Date	Remarks
2/2/2016	Trash Screens adjusted at working face. Minimized the working face to minimize wind impact. Applied additional daily cover throughout the day. Pickers on haul roads, fences and LF grounds.
2/19/2016	Trash Screens adjusted at working face. Minimized the working face to minimize wind impact. Applied additional daily cover throughout the day. Pickers on haul roads, fences and LF grounds.
3/16/2016	Trash Screens adjusted at working face. Minimized the working face to minimize wind impact. Applied additional daily cover throughout the day. Pickers on haul roads, fences and LF grounds.
3/17/2016	Trash Screens adjusted at working face. Minimized the working face to minimize wind impact. Applied additional daily cover throughout the day. Pickers on haul roads, fences and LF grounds.
3/23/2016	Trash Screens adjusted at working face. Minimized the working face to minimize wind impact. Applied additional daily cover throughout the day. Pickers on haul roads, fences and LF grounds.
4/1/2016	Trash Screens adjusted at working face. Minimized the working face to minimize wind impact. Applied additional daily cover throughout the day. Pickers on haul roads, fences and LF grounds.
4/27/2016	Trash Screens adjusted at working face. Minimized the working face to minimize wind impact. Applied additional daily cover throughout the day. Pickers on haul roads, fences and LF grounds.

Note:

Information above provides dates in which wind speeds exceeded 30 mph on site. A new tracking log was implimented beginning in May 2016.

GRL 2016 Litter Control Tracking

May-16

Date	Wind (mph)	Wind Direction (from)	Temp (^{0}F)	Dry/Wet	No. of ADS Pickers	ADS Picker Hours Worked	No. of Contract Pickers	Contractor Picker Hours Worked	Total Picker Hours	Remarks
5/2/2016	4-10	SSW	60s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/3/2016	4-24	ESE	60s	Dry	1	8.47	0	0	8.47	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/4/2016	7-22	NNE	50s	Wet	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/5/2016	3-17	NNE	60s	Dry	1	10.42	0	0	10.42	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/6/2016	2-18	SE	80s	Dry	1	9.52	0	0	9.52	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/7/2016									0	
5/9/2016	4-25	SE	60s	Dry	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/10/2016	8-28	E/SE	50s	Wet	1	5.25	0	0	5.25	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/11/2016	1-13	E	50s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/12/2016	3-24	WSW	60s	Dry	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/13/2016	5-21	WSW	50s	Wet	1	7.22	0	0	7.22	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	
5/16/2016	3-22	SE	50s	Dry	1	8.22	0	0	8.22	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/17/2016	6-22	ENE	50s	Dry	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/18/2016	3-18	NE	50s	Dry	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/19/2016	1-12	SW	60s	Dry	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/20/2016	1-11	SE	60s	Dry	1	7.33	0	0	7.33	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	
5/23/2016	1-14	S	70s	Dry	1	8.15	0	0	8.15	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/24/2016	2-21	S	70s	Dry	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/25/2016	2-18	Se	70s	Wet	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/26/2016	2-21	S	70s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
5/27/2016	1-14	S	70s	Wet	1	8.08	0	0	8.08	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	
5/31/2016	2-21	SSE	60s	Wet	1	6.8	0	0	6.8	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	
									0	

170.36

GRL 2016 Litter Control Tracking

Jun-16

Date	Wind (mph)	Wind Direction (from)	Temp (^{0}F)	Dry/Wet	No. of ADS Pickers	ADS Picker Hours Worked	No. of Contract Pickers	Contractor Picker Hours Worked	Total Picker Hours	Remarks
6/1/16	2-20	SW	60s	Wet	**1**	**8.28**	**0**	**0**	8.28	
6/2/2016	2-16	SW	60s	Wet	1	10.45	0	0	10.45	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/3/2016	1-10	S	70s	Wet	1	8.17	0	0	8.17	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/4/2016	1-18	ENE	60s	Wet	0		0	0	0	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	
6/6/2016	3-29	WSW	60s	Wet	1	8.38	0	0	8.38	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/7/2016	2-5	N	50s	Wet	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/8/2016	2-13	ENE	50s	Dry	1	8.52	0	0	8.52	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/9/2016	1-12	S	60s	Dry	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/10/2016	2-27	S	70s	Wet	1	6.73	0	0	6.73	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	
6/13/2016	3-15	ENE	60s	Dry	1	8.13	0	0	8.13	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/14/2016	3-17	ENE	60s	WET	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/15/2016	3-23	SW	70s	WET	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/16/2016	4-18	NE	60s	Wet	1	8.47	0	0	8.47	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/17/2016	2-14	ENE	70s	WET	1	7.2	0	0	7.2	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	
6/20/2016	3-25	WSW	70s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/21/2016	4-21	WSW	70s	Dry	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/22/2016	1-13	ENE	70s	Dry	1	9.25	0	0	9.25	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/23/2016	4-18	ENE	60s	Dry	1	8.15	0	0	8.15	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/24/2016	1-10	ENE	70s	Dry	1	7.48	0	0	7.48	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
					1	3.67	15	63	66.67	Landfill not open, but volunteer group picking along roadside
6/27/2016	3-20	SW	70s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/28/2016	2-21	NE	60s	Dry	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/29/2016	1-10	SW	60s	Dry	1	9.75	0	0	9.75	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
6/30/2016	1-25	SW	60s	Dry	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
									0	

241.79

GRL 2016 Litter Control Tracking

Jul-16

Date	Wind (mph)	Wind Direction (from)	Temp (^{0}F)	Dry/Wet	No. of ADS Pickers	ADS Picker Hours Worked	No. of Contract Pickers	Contractor Picker Hours Worked	Total Picker Hours	Remarks
7/1/15	3-18	NNE	60s	Dry	0	0	0	0	0	Trash Screens adjusted at working face.
7/5/2016	1-17	SW	70s	Dry	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Paper picker on site.
7/6/2016	2-19	SW	70s	Dry	1	8.2	0	0	8.2	Trash Screens adjusted at working face. Paper picker on site.
7/7/2016	1-35	ENE	70s	Wet	1	11.17	0	0	11.17	Trash Screens adjusted at working face, working face repositioned. Picker on site.
7/8/2016	4-25	WSW	70s	Wet	1	7.38	0	0	7.38	Trash Screens adjusted at working face. Pickers on haul roads, fences and LF grounds.
7/9/2016	2-17	N	70s	Dry	0	0	0	0	0	Trash Screens adjusted at working face.
									0	
7/11/2016	2-18	S	80s	Wet	1	8.22	0	0	8.22	Trash Screens adjusted at working face. Paper picker on site.
7/12/2016	3-19	SW	70s	Dry	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Paper picker on site.
7/13/2015	1-17	SSW	80s	Dry	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site.
7/14/2015	5-28	WSW	70s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.
7/15/2015	2-13	NE	60s	Wet	1	8.22	0	0	8.22	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
7/18/2015	1-13	SW	80s	Wet	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.
7/19/2016	1-9	S	90s	Dry	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Paper picker on site.
7/20/2016	1-13	S	90s	Dry	1	8.33	0	0	8.33	Trash Screens adjusted at working face. Paper picker on site.
7/21/2016	1-39	S	90s	Wet	0		0	0	0	Trash screens adjusted at working face. Working face repositioned for winds.
7/22/2016	1-13	SW	90s	Dry	1	8	0	0	8	Trash Screens adjusted at working face. Paper picker on site.
7/23/2016									0	
									0	
7/25/2016	1-17	WSW	80s	Dry	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Paper picker on site.
7/26/2016	1-10	SW	80s	Dry	1	8.32	0	0	8.32	Trash Screens adjusted at working face. Paper picker on site.
7/27/2016	1-20	SW	80s	Wet	1	7	0	0	7	Trash Screens adjusted at working face. Paper picker on site.
7/28/2016	7-20	ENE	70s	Wet	1	8.33	0	0	8.33	Trash Screens adjusted at working face. Paper picker on site.
7/29/2016	6-18	ENE	70s	Wet	1	6.47	0	0	6.47	Trash Screens adjusted at working face. Paper picker on site.
7/30/2016									0	

147.62

GRL 2016 Litter Control Tracking

Aug-16

Date	Wind (mph)	Wind Direction (from)	Temp (^{0}F)	Dry/Wet	No. of ADS Pickers	ADS Picker Hours Worked	No. of Contract Pickers	Contractor Picker Hours Worked	Total Picker Hours	Remarks
8/1/16	1-11	E	70s	Dry	1	8.35	0		8.35	Trash Screens adjusted at working face. Paper picker on site.
8/2/2016	0-8	SE	70s	Dry	1	8.28	0		8.28	Trash Screens adjusted at working face. Paper picker on site.
8/3/2016	1-10	SE	80s	Dry	1	7.37	0		7.37	Trash Screens adjusted at working face. Paper picker on site.
8/4/2016	2-28	S	80s	Wet	1	7.1	0		7.1	Trash Screens adjusted at working face. Paper picker on site.
8/5/2016	2-16	WSE	70s	Wet	1	8.27	0		8.27	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
8/8/2016	1-13	ESE	70s	Dry	1	8.25	0		8.25	Trash Screens adjusted at working face. Paper picker on site.
8/9/2016	1-14	SW	70s	Dry	1	8.5	0		8.5	Trash Screens adjusted at working face. Paper picker on site.
8/10/2016	0-8	SW	80s	Dry	1	7.15	0		7.15	Trash Screens adjusted at working face. Paper picker on site.
8/11/2016	2-24	S	70s	Dry	1	7.43	0		7.43	Trash Screens adjusted at working face. Paper picker on site.
8/12/2016	2-15	ENE	70s	Wet	1	6.47	0		6.47	Trash Screens adjusted at working face. Paper picker on site.
							10	40	40	Horicon Lions Club picked up HWY V
									0	
8/15/2016	1-12	ENE	70s	Dry	1	8.3	0		8.3	Trash Screens adjusted at working face. Paper picker on site.
8/16/2016	1-11	SW	70s	Dry	1	8.3	0		8.3	Trash Screens adjusted at working face. Paper picker on site.
8/17/2016	2-15	SW	70s	Wet	1	8.25	0		8.25	Trash Screens adjusted at working face. Paper picker on site.
8/18/2016	1-11	S	70s	Dry	1	8.33	0		8.33	Trash Screens adjusted at working face. Paper picker on site.
8/19/2016	1-13	S	70s	Wet	0	0	0		0	Trash Screens adjusted around working face.
8/20/2016	4-25	WSW	70s	Wet	0	0	0		0	Only intake was sludge.
									0	
8/22/2016	0-12	SSW	60s	Wet	1	8.3	0		8.3	Trash Screens adjusted at working face. Paper picker on site.
8/23/2016	2-15	SSW	60s	Wet	1	8.35	0		8.35	Trash Screens adjusted at working face. Paper picker on site.
8/24/2016	2-17	S	70s	Wet	0	0	0		0	Trash Screens adjusted at working face.
8/25/2016	1-11	SW	70s	Wet	1	8.22	0		8.22	Trash Screens adjusted at working face. Paper picker on site.
8/26/2016	1-11	N	70s	Wet	1	8.33	0		8.33	Trash Screens adjusted at working face. Paper picker on site.
									0	
8/29/2016	1-7	S	70s	Wet	1	8.25	0		8.25	Trash Screens adjusted at working face. Paper picker on site.
8/30/2016	1-10	WSW	70s	Wet	1	8.38	0		8.38	Trash Screens adjusted at working face. Paper picker on site.
8/31/2016	3-16	NE	60s	Dry	1	8.25	0		8.25	Trash Screens adjusted at working face. Paper picker on site.

184.43

GRL 2016 Litter Control Tracking

Sep-16

Date	Wind (mph)	Wind Direction (from)	Temp (^{0}F)	Dry/Wet	No. of ADS Pickers	ADS Picker Hours Worked	No. of Contract Pickers	Contractor Picker Hours Worked	Total Picker Hours	Remarks
9/1/16	3-18	NE	60s	Dry	1	8.32	0	0	8.32	Trash Screens adjusted at working face. Paper picker on site.
9/2/2016	2-13	ENE	60s	Dry	1	7.42	0	0	7.42	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
									0	
9/6/2016	2-20	S	70s	Wet	1	7.42	0	0	7.42	Trash Screens adjusted at working face. Paper picker on site.
9/7/2016	2-21	ENE	60s	Wet	1	6.63	0	0	6.63	Trash Screens adjusted at working face. Paper picker on site.
9/8/2016	2-17	WSW	70s	Wet	1	10.4	0	0	10.4	Trash Screens adjusted at working face. Paper picker on site.
9/9/2016	1-13	SE	60s	Wet	0	0	0	0	0	Trash Screens adjusted at working face.
9/10/2016	3-28	WSW	60s	Wet	0	0	0	0	0	Trash Screens adjusted at working face.
									0	
9/12/2016	2-17	S	60s	Wet	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.
9/13/2016	1-12	NE	60s	Wet	1	8.75	0	0	8.75	Trash Screens adjusted at working face. Paper picker on site.
9/14/2016	2-12	E	60s	Wet	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Paper picker on site.
9/15/2016	2-15	SE	60s	Wet	1	8.8	0	0	8.8	Trash Screens adjusted at working face. Paper picker on site.
9/16/2016	2-19	SSE	60s	Wet	1	9.12	0	0	9.12	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
9/19/2016	2-19	S	60s	Wet	1	8.37	0	0	8.37	Trash Screens adjusted at working face. Paper picker on site.
9/20/2016	0-8	SE	60s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site.
9/21/2016	3-25	ENE	60s	Wet	1	7.47	0	0	7.47	Trash Screens adjusted at working face. Paper picker on site.
9/22/2016	1-9	N	60s	Wet	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Paper picker on site.
9/23/2016	6-18	ENE	60s	Wet	1	8.32	0	0	8.32	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
9/26/2016	7-33	WSW	50s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site. Additional cover added during day.
9/27/2016	4-27	WSW	50s	Wet	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.
9/28/2016	5-20	NE	50s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site.
9/29/2016	8-31	NE	50s	Wet	1	8.2	0	0	8.2	Trash Screens adjusted at working face. Paper picker on site. Additional cover added during day.
9/30/2016	8-23	ENE	50s	Wet	1	8.02	0	0	8.02	Trash Screens adjusted at working face. Paper picker on site.

GRL 2016 Litter Control Tracking

Oct-16

Date	Wind (mph)	Wind Direction (from)	Temp (^{0}F)	Dry/Wet	No. of ADS Pickers	ADS Picker Hours Worked	No. of Contract Pickers	Contractor Picker Hours Worked	Total Picker Hours	Remarks
10/3/16	1-14	ENE	50s	Wet	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Paper picker on site.
10/4/2016	2-17	SE	60s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site.
10/5/2016	2-20	S	60s	Wet	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.
10/6/2016	1-11	SSE	60	Wet	1	10.37	0	0	10.37	Trash Screens adjusted at working face. Paper picker on site.
10/7/2016	4-29	WSW	50s	Wet	1	8.33	0	0	8.33	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
10/10/2016	2-12	S	60s	Dry	1	8.52	0	0	8.52	Trash Screens adjusted at working face. Paper picker on site.
10/11/2016	2-18	S	60s	Dry	1	9.28	0	0	9.28	Trash Screens adjusted at working face. Paper picker on site.
10/12/2016	1-15	S	50s	Wet	1	3.55	0	0	3.55	Trash Screens adjusted at working face. Paper picker on site.
10/13/2016	2-17	SW	40s	Wet	1	8.37	0	0	8.37	Trash Screens adjusted at working face. Paper picker on site.
10/14/2016	2-17	S	50s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
10/17/2016	3-15	S	70s	Wet	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Paper picker on site.
10/18/2016	3-20	WSW	60s	Dry	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Paper picker on site.
10/19/2016	0-7	S	50s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.
10/20/2016	5-21	NE	40s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.
10/21/2016	2-12	NNE	40s	Dry	1	8.32	0	0	8.32	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
10/24/2016	2-14	N	40s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.
10/25/2016	2-13	ENE	40s	Dry	1	8.28	0	0	8.28	Trash Screens adjusted at working face. Paper picker on site.
10/26/2016	6-23	SE	40s	Wet	0	0	0	0	0	Trash Screens adjusted at working face.
10/27/2016	2-14	NE	40s	Wet	1	8.37	0	0	8.37	Trash Screens adjusted at working face. Paper picker on site.
10/28/2016	3-20	SE	50s	Wet	1	7.28	0	0	7.28	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
10/31/2016	3-14	NE	40s	Wet	1	8.33	0	0	8.33	Trash Screens adjusted at working face. Paper picker on site.
									0	

138.66

GRL 2016 Litter Control Tracking

Nov-16

Date	Wind (mph)	Wind Direction (from)	Temp (^{0}F)	Dry/Wet	No. of ADS Pickers	ADS Picker Hours Worked	No. of Contract Pickers	Contractor Picker Hours Worked	Total Picker Hours	Remarks
11/1/16	1-15	SSW	60s	Dry	1	8.13	0	0	8.13	Trash Screens adjusted at working face. Paper picker on site.
11/2/2016	2-12	ENE	50s	Wet	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site.
11/3/2016	0-10	ENE	40s	Dry	1	10.17	0	0	10.17	Trash Screens adjusted at working face. Paper picker on site.
11/4/2016	1-16	SW	40s	Dry	1	8.58	0	0	8.58	Trash Screens adjusted at working face. Paper picker on site.
					1	1.2	0	0	1.2	
									0	
11/7/2016	0-14	S	50s	Dry	1	8.42	0	0	8.42	Trash Screens adjusted at working face. Paper picker on site.
11/8/2016	4-19	N	40s	Dry	1	8.22	0	0	8.22	Trash Screens adjusted at working face. Paper picker on site.
11/9/2016	1-16	SW	40s	Dry	1	8.22	0	0	8.22	Trash Screens adjusted at working face. Paper picker on site.
11/10/2016	3-22	SSW	50s	Dry	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Paper picker on site.
11/11/2016	3-27	NE	40s	Dry	1	7.58	0	0	7.58	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
11/14/2016	1-8	S	40s	Dry	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Paper picker on site.
11/15/2016	1-10	NE	40s	Dry	1	8.22	0	0	8.22	Trash Screens adjusted at working face. Paper picker on site.
11/16/2016	1-13	S	40s	Dry	1	8.22	0	0	8.22	Trash Screens adjusted at working face. Paper picker on site.
11/17/2016	3-18	S	50s	Dry	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Paper picker on site.
11/18/2016	3-35	S	50s	Dry	1	8.08	0	0	8.08	Trash Screens adjusted at working face. Paper picker on site. Additional cover added during day. Working face size minimized.
									0	
									0	
11/21/2016	2-12	NE	20s	Dry	1	8.75	4	25	33.75	Trash Screens adjusted at working face. Paper pickers on site.
11/22/2016	2-16	SE	30s	Dry	1	9.17	3	18	27.17	Trash Screens adjusted at working face. Paper pickers on site.
11/23/2016	2-16	SW	40s	Dry	1	7.48	0	0	7.48	Trash Screens adjusted at working face. Paper picker on site.
11/24/2016									0	
11/25/2016	3-14	WSW	30s	Dry	0	0	0	0	0	Trash Screens adjusted at working face. Paper picker on site.
11/26/2016	1-11	S	30s	Dry	0	0	0	0	0	Trash Screens adjusted at working face. Paper picker on site.
									0	
11/28/2016	5-22	SSE	40s	Wet	1	4.93	0	0	4.93	Trash Screens adjusted at working face. Paper picker on site.
11/29/2016	2-19	SSW	40s	Wet	1	9.02	2	15.5	24.52	Trash Screens adjusted at working face. Paper pickers on site.
11/30/2016	1-12	SSW	30s	Wet	1	8.7	2	14	22.7	Trash Screens adjusted at working face. Paper pickers on site.

GRL 2016 Litter Control Tracking

Dec-16

Date	Wind (mph)	Wind Direction (from)	Temp (^{0}F)	Dry/Wet	No. of ADS Pickers	ADS Picker Hours Worked	No. of Contract Pickers	Contractor Picker Hours Worked	Total Picker Hours	Remarks
12/1/16	5-22	WSW	30s	Wet	1	8.3	0	0	8.3	Trash Screens adjusted at working face. Paper picker on site.
12/2/2016	3-15	WSW	30s	Wet	1	8.35	0	0	8.35	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
12/5/2016	2-12	S	30s	Wet	1	8.32	0	0	8.32	Trash Screens adjusted at working face. Paper picker on site.
12/6/2016	4-28	SW	30s	Wet	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Paper picker on site.
12/7/2016	8-28	SW	20s	Wet	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Paper picker on site.
12/8/2016	8-29	WSW	20s	Wet	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Paper picker on site.
12/9/2016	3-18	WSW	10s	Dry	1	8.23	0	0	8.23	Trash Screens adjusted at working face. Paper picker on site.
									0	
									0	
12/12/2016	4-24	WSW	10s	Dry	1	8.25	0	0	8.25	Trash Screens adjusted at working face. Paper picker on site.
12/13/2016	3-16	WSW	0s	Dry	1	8.27	0	0	8.27	Trash Screens adjusted at working face. Paper picker on site.
12/14/2016	7-32	WSW	0s	Dry	1	8.37	0	0	8.37	Trash Screens adjusted at working face. Paper picker on site. Additional cover applied. Working face minimized.
12/15/2016	4-19	WSW	0s	Dry	1	10.32	0	0	10.32	Trash Screens adjusted at working face. Paper picker on site.
12/16/2016	1-10	S	10s	Dry	0	0	0	0	0	Trash Screens adjusted at working face.
									0	
									0	
12/19/2016	3-19	S	0s	Dry	0	0	0	0	0	Trash Screens adjusted at working face.
12/20/2016	3-25	S	20s	Wet	0	0	0	0	0	Trash Screens adjusted at working face.
12/21/2016	1-16	S	20s	Wet	0	0	0	0	0	Trash Screens adjusted at working face.
12/22/2016	2-19	SSW	20s	Wet	0	0	0	0	0	Trash Screens adjusted at working face.
12/23/2016	1-10	S	30s	Wet	0	0	0	0	0	Trash Screens adjusted at working face.
									0	
									0	
12/26/2016	8-40	S	30s	Wet	0	0	0	0	0	Trash Screens adjusted at working face. Working face minimized and sheltered. Additional cover applied.
12/27/2016	7-23	WSW	20s	Wet	0	0	4	14	14	Trash Screens adjusted at working face. Paper Pickers on site
12/28/2016	2-15	SSW	20s	Dry	1	7.82	7	39	46.82	Trash Screens adjusted at working face. Paper pickers on site.
12/29/2016	7-32	WSW	20s	Dry	1	7.82	5	24	31.82	Trash Screens adjusted at working face. Paper pickers on site. Working face minimized.
12/30/2016	4-19	WSW	20s	Dry	1	8.58	6	31.5	40.08	Trash Screens adjusted at working face. Paper pickers on site.

Attachment E-3

Annual Compliance (Stormwater) Inspection

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Annual Facility Site Compliance Inspection Report (AFSCI)

For Storm Water Discharges Associated With Industrial Activity Under Wisconsin Pollutant Discharge Elimination System (WPDES) Permit

Form 3400-176 (R 8/10)

Notice: This form is authorized by s. NR 216.29(2), Wis. Adm. Code. Submittal of a completed form to the Department is mandatory for industrial facilities covered under a Tier 1 storm water general permit. Facilities covered under a Tier 1 permit are not required to submit AFSCI reports after submittal of the second AFSCI report, unless so directed by the Department. However, these inspections and quarterly visual inspections shall still be conducted and results shall be kept on site for Department inspection. Facilities covered under a Tier 2 storm water general, industry-specific general or individual permit shall keep the results of their AFSCI and quarterly visual inspections on site for Department inspection. Failure to comply with these regulations may result in fines up to $25,000 per day pursuant to s. 283.91, Wis. Stats. Personally identifiable information on this form may be used for other water quality program purposes.

Please type or clearly print your answers to all questions.

Section I: Facility/Site Information

Facility/Site Name (As Appears on Permit Authorization)		County	
Advanced Disposal Glacier Ridge Landfill		Dodge	
Location Address/Description (if different from mailing address below)		**State**	**ZIP Code**
N7296 Hwy V		WI	53032
Municipality	☐ City ☐ Village ☑ Township	**Facility Identification (FID) and/or FIN Number (if known)**	
Williamstown		FID:	FIN:

Section II: Facility/Site Contact Person

Local Contact Person		Mailing Address (if different than site location address)	
Jacob Margelofsky			
Title		**Municipality (if different than above)**	
Operations Manager			
Telephone (include area code)		**State**	**ZIP Code (if different than above)**
920-387-0607		WI	
E-mail address or Website (if applicable)		**Fax (include area code)**	
Jacob.Margelofsky@advanceddisposal.com			

Section III: Certification & Signature (Person attesting to the accuracy and completeness of Annual Facility Site Compliance Inspection Report.)

This form must be signed by an official representative of the permitted facility in accordance with s. NR 216.22(7), Wis. Adm. Code. See instructions on page 4. If this form is not signed, or is found to be incomplete, it will be returned

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Authorized Representative		Telephone Number (include area code)		
		920-387-0607		
Type or Print Name		**Company Name**		
Jacob Margelofsky		Advanced Disposal		
Position Title		**Mailing Address**		
Operations Manager		N7296 Hwy V		
Date Signed		**Municipality**	**State**	**ZIP Code**
12/6/16		Horicon	WI	53032

How to Use this Form:

The first level of storm water monitoring consists of a comprehensive annual facility site compliance inspection (AFSCI) to determine if your facility is operating in compliance with your Storm Water Pollution Prevention Plan (SWPPP). You should use the results of this inspection to determine the extent to which your SWPPP needs to be updated to prevent pollution from new source areas, as well as to correct any inadequacies that the plan may have in handling existing source areas. This first level of monitoring is addressed in Section IV of this Annual Report on page 2.

The second level of storm water monitoring consists of quarterly visual observations of storm water leaving the site during runoff events caused by snow-melt or rainfall. This is a practical, low cost tool for identifying obvious contamination of storm water discharges, and can also help identify which practices are ineffective. The goal of quarterly inspections is to obtain results from a set of four inspections that are distributed as evenly as possible throughout the year and which depict runoff quality during each of the four seasons. This second level of monitoring is addressed in Section V of this Annual Report on page 3.

Section IV: Annual Facility Site Compliance Inspection

The Annual Facility Site Compliance Inspection shall be adequate to verify that: your Storm Water Pollution Prevention Plan (SWPPP) remains current; potential pollution sources at your facility are identified; the facility site map and drainage map remain accurate; and that the Best Management Practices prescribed in your SWPPP are being implemented, properly operated, and adequately maintained.

Name of Person Conducting Inspection	Inspection Date
Jacob Margeldsh	12/6/16
Employer	**Telephone Number**
Advanced Disposal	920-387-0607

Your inspection should start with a review of your written SWPPP kept at your facility. The SWPPP should be amended if, through these inspections, you find that the provisions in your SWPPP are ineffective in controlling contaminated storm water from being discharged from your facility.

1.	Has your SWPPP been updated to include current Non-Storm Water Discharge Evaluation results?	☒ Yes	☐ No	☐ N/A
2.	Has your SWPPP been amended for any new construction that would affect the site map or drainage conditions at the facility?	☒ Yes	☐ No	☐ N/A
3.	Has your SWPPP been amended for any changes in facility operations that could be identified as new source areas for contamination of storm water?	☒ Yes	☐ No	☐ N/A
4.	Are there any materials at the facility that are handled, stored, or disposed in a manner to allow exposure to storm water that are not currently addressed in your SWPPP?	☐ Yes	☒ No	☐ N/A
5.	Are there any maintenance or material handling activities conducted outdoors that have not been addressed in your SWPPP?	☐ Yes	☒ No	☐ N/A
6.	Are outside areas kept in a neat and orderly condition?	☒ Yes	☐ No	☐ N/A
7.	Are regular housekeeping inspections made?	☒ Yes	☐ No	☐ N/A
8.	Do you see spots, pools, puddles, or other traces of oils, grease, or other chemicals on the ground?	☐ Yes	☒ No	☐ N/A
9.	Are particulates on the ground from industrial operations or processes being controlled?	☒ Yes	☐ No	☐ N/A
10.	Do you see leaking equipment, pipes or containers?	☐ Yes	☒ No	☐ N/A
11.	Do drips, spills, or leaks occur when materials are being transferred from one source to another?	☐ Yes	☒ No	☐ N/A
12.	Are drips or leaks from equipment or machinery being controlled?	☒ Yes	☐ No	☐ N/A
13.	Are cleanup procedures used for spilled solids?	☒ Yes	☐ No	☐ N/A
14.	Are absorbent materials (floor dry, kitty litter, etc.) regularly used in certain areas to absorb spills?	☒ Yes	☐ No	☐ N/A
15.	Can you find discoloration, residue, or corrosion on the roof or around vents or pipes that ventilate or drain work areas?	☐ Yes	☒ No	☐ N/A
16.	Are Best Management Practices implemented to reduce or eliminate contamination of storm water from source areas at the facility?	☒ Yes	☐ No	☐ N/A
17.	Are Best Management Practices adequately maintained?	☒ Yes	☐ No	☐ N/A
18.	Are there significant changes to your SWPPP needed to correct plan inadequacies to effectively control a discharge of contaminated storm water from your facility?	☐ Yes	☒ No	☐ N/A

Comments:

Section V: Quarterly Visual Inspection Reports

Quarterly Visual Inspections at each storm water discharge outfall on your site can be a valuable assessment tool and are required by the Tier 1, Tier 2, and Nonmetallic Mining Industrial Storm Water General Permits. These inspections should be performed when sufficient runoff occurs during daylight hours. Try to make observations within the first 30 minutes after runoff begins discharging from the outfall or soon thereafter as practical, but no later than 60 minutes. If you find visible pollution, note the probable source and list any possible Best Management Practices that could be used to reduce or eliminate the problem. Make any necessary changes to your Storm Water Pollution Prevention Plan as needed. If you were unable to evaluate an outfall during a specific quarter, this should be indicated along with a reason as to why this could not be done.

	Date of Inspection			
Outfall Number	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
1	3/24/16	6/11/16	9/19/16	11/28/16
2R	3/24/16	6/11/16	9/19/16	11/28/16
3A	3/24/16	6/11/16	9/19/16	11/28/16
3B	3/24/16	6/11/16	9/19/16	11/28/16
4A	3/24/16	6/11/16	9/19/16	11/28/16
4B	3/24/16	6/11/16	9/19/16	11/28/16
5A	3/24/16	6/11/16	9/19/16	11/28/16
5B	3/24/16	6/11/16	9/19/16	11/28/16
7	3/24/16	6/11/16	9/19/16	11/28/16
8	3/24/16	6/11/16	9/19/16	11/28/16

Briefly summarize what you found when conducting your Quarterly Visual Inspections. (Include any observations of color, odor, turbidity, floating solids, foam, oil sheen, or any other indications of storm water pollution and the probable sources of any observed storm water contamination.)

Attachment E-4

Quarterly Stormwater Inspection Reports

ATTACHMENT B
Quarterly Facility SWPPP Inspection Form
Glacier Ridge Landfill

Location: Glacier Ridge Landfill Horicon, WI	Inspector (print name): Jacob Maryolofsky
Date: 3/24/16	Signature: Jacob Maryolofsky
Time: 8:00	Weather: Rain

Objectives:

- To identify sources of storm water pollution
- To verify BMP implementation
- To determine if significant facility changes require an update to the SWPPP

Key:
Y = Yes
N = No
NA = Not Applicable

Best Management Practice (BMP) Inspection

Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes
Leachate Loadout Pad	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Overflow has Alarm - Tested - OK
Aboveground Leachate Tank Containment Pad	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Pumping out Secondary Containment
Indoor ASTs in Maintenance Shop	Y (N) NA	Y (N) NA	Y (N) NA	Y (N) NA	

ATTACHMENT B (CONTINUED)
Quarterly Facility SWPPP Inspection Form
Advanced Disposal Services Glacier Ridge Landfill

Best Management Practice (BMP) Inspection					
Activity or Area	**Potential Significant Material Exposure(s)?**	**BMPs Implemented and Maintained?**	**New BMP Required?**	**Discharges Observed (ponding, drainage)?**	**Summary Notes**
Fuel Delivery and Unloading	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	
Vehicle Fueling	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Capped off drain - redo to allow trucks to fill side by side
Waste Storage (not associated with landfill)	Y (N) NA	Y (N) NA	Y (N) NA	Y (N) NA	
Soil Stockpiles	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Contractor added to pile. Will need to seed
Sanitary Landfill Operations	Y (N) NA	(Y) N NA	Y (N) NA	(Y) N NA	Regrading area by road to allow Drainage
Access Roads	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Need to add stone by base
Public Drop-off Area	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	
General Housekeeping	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	

ATTACHMENT B (CONTINUED)
Quarterly Facility SWPPP Inspection Form
Advanced Disposal Services Glacier Ridge Landfill

Best Management Practice (BMP) Inspection					
Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes
If discharges were observed, describe the discharge and list any potential sources of non-storm water discharge below.					

ATTACHMENT B (CONTINUED)
Quarterly Facility SWPPP Inspection Form
Advanced Disposal Services Glacier Ridge Landfill

Outfall Inspection													
Outfall Number (See Figures I-1 and I-2)	Discharge Flow Present?		If so, is there a sheen or discoloration?			Turbidity			Floating Material (other than oil or grease)		Unusual Odors?		Comments
Outfall 1	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	Some ice Patches
~~Outfall 2~~	~~Y~~	~~N~~	~~Y~~	~~N~~	~~NA~~	~~Minimal~~	~~Moderate~~	~~High~~	~~Y~~	~~N~~	Y	N	
Outfall 2R	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 3A	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 3B	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 4A	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 4B	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 5A	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 5B	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 6A	~~Y~~	~~N~~	Y	N	NA	~~Minimal~~	~~Moderate~~	~~High~~	~~Y~~	~~N~~	Y	N	
Outfall 6B	~~Y~~	~~N~~	Y	N	NA	~~Minimal~~	~~Moderate~~	High	Y	N	~~Y~~	~~N~~	
Outfall 7	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 8	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	

SWPPP Quarterly Structural Control Inspection Worksheet

Glacier Ridge Landfill

Quarter: first Date: 3/24/16 Name of Inspector: Jake Margolesky

Sedimentation Basins:

Basin	Erosion Present?		Sed. Level Acceptable?		Debris/Leachate Present?		Comments
	Yes	No	Yes	No	Yes	No	
SB – 1		X	X			X	Need to seed by energy disapator in spring
SB – 2		X	X			X	
SB – 3		X	X			X	Tree fell into basin - need to pull out
SB – 4		X	X			X	
SB – 5		X	X			X	Level high due to spring thaw + rains
SB – 6							

Drainage Ditches, Culverts, Flumes, Diversion Berms, Energy Dissipaters:

☐ No Concerns Noted, or

☒ See Noted Issues Below

Location	Description	Observations
2015 Cap	Berms	All needs to be seeded

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
1st	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
1	Discharge @ Sed Basin No 1 - Discharge Pipe

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
3/23/16 - Present	8:30 am	.4

Name of Person Conducting Inspection	Inspection Date
Jake Margolefsky	3/24/16

Facility Name
Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge present at outfall during inspection
- Sed Basin level higher than last inspection

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
1st	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
2R	~~Ditch~~ Discharge at Sed Basin #2

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
3/23/16 - Present	9:00	.4

Name of Person Conducting Inspection	Inspection Date
Jake Mroczlofsky	3/24/16

Facility Name
Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☒ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☒ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☒ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☒ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☒ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

Water being pumped into basin from Ditch South of Phase 7

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
1st	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
3A	Discharge Pipe @ Sed Basin #3

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
3/23/16 - Present	9:30	.4

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	3/24/16

Facility Name

Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☒ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☒ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☒ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☒ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☒ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge flow present. Level of sed basin higher than during last inspection

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
1st	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
3B	Biofilter @ Sed Basin #3

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
3/23/16 - Present	9:40	.4

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	3/24/16

Facility Name

Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge present

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
1st	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
4A	Discharge Pipe @ Sed Basin # 4

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
3/23/16 - Present	10:00	.4

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	3/24/16

Facility Name
Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☒ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☒ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☒ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☒ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☒ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

Low turbity - ↓

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
1st	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
4B	Biofilter @ Sed Basin # 4

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
3/23/16 – Present	10:15	.4

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	3/24/16

Facility Name			
Advanced Disposal Glacier Ridge Landfill			
Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☒ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☒ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☒ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☒ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☒ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter		Year	
1st		2016	
Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)		
5A	Discharge @ Sed Basin #5		
Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)	
3/23/16 - Present	10:30	.4	
Name of Person Conducting Inspection		Inspection Date	
Jake Margelofsky		3/24/16	
Facility Name			
Advanced Disposal Glacier Ridge Landfill			
Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☒ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☒ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☒ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☒ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☒ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
1st	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
5B	Biofilter

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
3/23/16 - Present	10:45	.4

Name of Person Conducting Inspection	Inspection Date
Jake Marcyelofsky	3/24/16

Facility Name			
Advanced Disposal Glacier Ridge Landfill			
Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☒ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☒ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☒ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☒ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☒ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No Discharge Present

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
1st	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
7	Swale

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
3/23/16 - Present	11:00	.4

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	3/24/16

Facility Name

Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
1st	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
8	Wetland

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
3/23/16 - Present	11:30	.4

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	3/24/16

Facility Name
Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge present.
Some Ice/slush in area

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

ATTACHMENT B
Quarterly Facility SWPPP Inspection Form
Glacier Ridge Landfill

Location: Glacier Ridge Landfill Horicon, WI	Inspector (print name): Jake Murzyglotzky
Date: 6/1/16	Signature: Jacob Murzyglotzky
Time: 5:15 am	Weather: Rain/overcast

Objectives:
- To identify sources of storm water pollution
- To verify BMP implementation
- To determine if significant facility changes require an update to the SWPPP

Key:
Y = Yes
N = No
NA = Not Applicable

Best Management Practice (BMP) Inspection

Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes
Leachate Loadout Pad	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Need autopump for overflow
Aboveground Leachate Tank Containment Pad	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Water pumped out via sump pump
Indoor ASTs in Maintenance Shop	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	

ATTACHMENT B (CONTINUED)
Quarterly Facility SWPPP Inspection Form
Advanced Disposal Services Glacier Ridge Landfill

Best Management Practice (BMP) Inspection					
Activity or Area	**Potential Significant Material Exposure(s)?**	**BMPs Implemented and Maintained?**	**New BMP Required?**	**Discharges Observed (ponding, drainage)?**	**Summary Notes**
Fuel Delivery and Unloading	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Water ponded up in overflow
Vehicle Fueling	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	
Waste Storage (not associated with landfill)	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	
Soil Stockpiles	Y (N) NA	(Y) N NA	Y (N) NA	(Y) N NA	Some Rain Runoff
Sanitary Landfill Operations	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Rain runoff
Access Roads	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	
Public Drop-off Area	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	
General Housekeeping	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	

ATTACHMENT B (CONTINUED)
Quarterly Facility SWPPP Inspection Form
Advanced Disposal Services Glacier Ridge Landfill

Best Management Practice (BMP) Inspection					
Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes
If discharges were observed, describe the discharge and list any potential sources of non-storm water discharge below.					

ATTACHMENT B (CONTINUED)
Quarterly Facility SWPPP Inspection Form
Advanced Disposal Services Glacier Ridge Landfill

Outfall Inspection														
Outfall Number (See Figures I-1 and I-2)	Discharge Flow Present?		If so, is there a sheen or discoloration?			Turbidity			Floating Material (other than oil or grease)		Unusual Odors?		Comments
Outfall 1	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
~~Outfall 2~~	~~Y~~	~~N~~	~~Y~~	~~N~~	~~NA~~	~~Minimal~~	~~Moderate~~	~~High~~	~~Y~~	~~N~~	~~Y~~	~~N~~	
Outfall 2R	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 3A	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 3B	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 4A	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 4B	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 5A	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 5B	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
~~Outfall 6A~~	~~Y~~	~~N~~	~~Y~~	~~N~~	~~NA~~	~~Minimal~~	~~Moderate~~	~~High~~	~~Y~~	~~N~~	~~Y~~	~~N~~	
~~Outfall 6B~~	~~Y~~	~~N~~	~~Y~~	~~N~~	~~NA~~	~~Minimal~~	~~Moderate~~	~~High~~	~~Y~~	~~N~~	~~Y~~	~~N~~	
Outfall 7	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 8	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	

SWPPP Quarterly Structural Control Inspection Worksheet

Glacier Ridge Landfill

Quarter: 2nd Date: 6/1/16 Name of Inspector: Jake Mergelofsky

Sedimentation Basins:

Basin	Erosion Present?		Sed. Level Acceptable?		Debris/Leachate Present?		Comments
	Yes	No	Yes	No	Yes	No	
SB – 1		X	X			X	
SB – 2		X	X			X	
SB – 3		X	X			X	Level of Basin Low
SB – 4		X	X			X	Level of Basin very low
SB – 5		X	X			X	
SB – 6							

Drainage Ditches, Culverts, Flumes, Diversion Berms, Energy Dissipaters:

☒ No Concerns Noted, or

☐ See Noted Issues Below

Location	Description	Observations
West of North ~~Energy Dissipaters~~	Energy Diss. Waters	Recently cleaned out

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
2nd	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
1	Discharge @ Sed Basin No #1

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
2:15-5:30	5:00am	.4

Name of Person Conducting Inspection	Inspection Date
Jake Margeletsky	6/1/16

Facility Name

Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No Discharge present.

Everything looks o.k.

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter				Year
2nd				2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
2R	Discharge @ Sed Basin #2

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
2:15 - 5:30	5:15 am	.4

Name of Person Conducting Inspection	Inspection Date
Jake Marqdofsky	6/1/16

Facility Name			
Advanced Disposal Glacier Ridge Landfill			
Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☒ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☒ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☒ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☒ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☒ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

Discharge present
Water from Phase 8 cell construction being pumped into the ditch

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
2nd	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
3A	Discharge Pipe @ Sed Basin #3

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
2:15 - 5:30	5:30	.4

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	6/1/16

Facility Name

Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge present.

Sed Basin level very low

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
2nd	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
3B	Biofilter @ Sed Basin #3

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
2:15 - 5:30	5:35	.45

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	6/1/16

Facility Name

Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge present during inspection

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
2nd	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
4A	Discharge Pipe @ Sed Basin #4

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
2:15 - 5:30	5:45	.4

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	6/1/16

Facility Name

Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge present

Sed Basin revel very low

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
2nd	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
4B	Biofilter @ Sed Basin #4

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
2:15 - 5:30	5:50	.4

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	6/1/16

Facility Name

Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge present

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
2nd	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
5A	Discharge @ Sed Basin #5

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
2:15-5:30	6:00	.4

Name of Person Conducting Inspection	Inspection Date
Jake Mangelsdorf	6/1/16

Facility Name

Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☒ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☒ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☒ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☒ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☒ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

Low Turbidity flow. Clear, Clean

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
2nd	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
	B. of Hcv

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
2:15-5:30	6:05	.4

Name of Person Conducting Inspection	Inspection Date
Jake Margeletsky	5/1/16

Facility Name

Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge present

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
2nd	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
7	Swale

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
~~6:15~~ 2:15-5:30	6:15	.4

Name of Person Conducting Inspection	Inspection Date
Jake Marcyla3by	6/1/16

Facility Name			
Advanced Disposal Glacier Ridge Landfill			
Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
2nd	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
8	Wetland

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
2:15 - 5:30	6:26	.4

Name of Person Conducting Inspection	Inspection Date
Jake Mangelsby	6/1/16

Facility Name

Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge present

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

ATTACHMENT B
Quarterly Facility SWPPP Inspection Form
Glacier Ridge Landfill

Location: Glacier Ridge Landfill Horicon, WI	Inspector (print name): Jacob Margelofsky
Date: 9/19/16	Signature:
Time: 5:00 am	Weather: Overcast/Rain

Objectives:
- To identify sources of storm water pollution
- To verify BMP implementation
- To determine if significant facility changes require an update to the SWPPP

Key:
Y = Yes
N = No
NA = Not Applicable

Best Management Practice (BMP) Inspection

Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes
Leachate Loadout Pad	Y (N) NA	Y (N) NA	Y (N) NA	Y (N) NA	New pump being installed
Aboveground Leachate Tank Containment Pad	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Rainwater pumped out
Indoor ASTs in Maintenance Shop	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	

ATTACHMENT B (CONTINUED)
Quarterly Facility SWPPP Inspection Form
Advanced Disposal Services Glacier Ridge Landfill

Best Management Practice (BMP) Inspection					
Activity or Area	**Potential Significant Material Exposure(s)?**	**BMPs Implemented and Maintained?**	**New BMP Required?**	**Discharges Observed (ponding, drainage)?**	**Summary Notes**
Fuel Delivery and Unloading	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	landfill Good - Shop tank being pumped
Vehicle Fueling	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	
Waste Storage (not associated with landfill)	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Getting Rid of freon drop off Freon
Soil Stockpiles	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	
Sanitary Landfill Operations	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	
Access Roads	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	
Public Drop-off Area	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Getting Rid of freon Box
General Housekeeping	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	

ATTACHMENT B (CONTINUED)
Quarterly Facility SWPPP Inspection Form
Advanced Disposal Services Glacier Ridge Landfill

Best Management Practice (BMP) Inspection					
Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes
If discharges were observed, describe the discharge and list any potential sources of non-storm water discharge below.					

ATTACHMENT B (CONTINUED)
Quarterly Facility SWPPP Inspection Form
Advanced Disposal Services Glacier Ridge Landfill

Outfall Inspection												
Outfall Number (See Figures I-1 and I-2)	Discharge Flow Present?		If so, is there a sheen or discoloration?			Turbidity			Floating Material (other than oil or grease)		Unusual Odors?		Comments
Outfall 1	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
~~Outfall 2~~	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 2R	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 3A	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 3B	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 4A	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 4B	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 5A	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 5B	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
~~Outfall 6A~~	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
~~Outfall 6B~~	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 7	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	
Outfall 8	Y	N	Y	N	NA	Minimal	Moderate	High	Y	N	Y	N	

ATTACHMENT B
Quarterly Facility SWPPP Inspection Form
Glacier Ridge Landfill

Location: Glacier Ridge Landfill Horicon, WI	Inspector (print name): Jake Marcelofsky
Date: 11/28/16	Signature: Jake Marcelofsky
Time: 2:00pm	Weather: Raining

Objectives:
- To identify sources of storm water pollution
- To verify BMP implementation
- To determine if significant facility changes require an update to the SWPPP

Key:
Y = Yes
N = No
NA = Not Applicable

Best Management Practice (BMP) Inspection

Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes
Leachate Loadout Pad	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Automatic Pump hooked up
Aboveground Leachate Tank Containment Pad	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Pumped via sump pump
Indoor ASTs in Maintenance Shop	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	

ATTACHMENT B (CONTINUED)
Quarterly Facility SWPPP Inspection Form
Advanced Disposal Services Glacier Ridge Landfill

Best Management Practice (BMP) Inspection					
Activity or Area	Potential Significant Material Exposure(s)?	BMPs Implemented and Maintained?	New BMP Required?	Discharges Observed (ponding, drainage)?	Summary Notes
If discharges were observed, describe the discharge and list any potential sources of non-storm water discharge below.					

ATTACHMENT 3 (CONTINUED)
Quarterly Facility SWPPP Inspection Form
Advanced Disposal Services Glacier Ridge Landfill

Best Management Practice (BMP) Inspection					
Activity or Area	**Potential Significant Material Exposure(s)?**	**BMPs Implemented and Maintained?**	**New BMP Required?**	**Discharges Observed (ponding, drainage)?**	**Summary Notes**
Fuel Delivery and Unloading	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	
Vehicle Fueling	Y (N) NA	(Y) N NA	(Y) N NA	Y (N) NA	New Area needed since fill 2 trucks at once. Pump overflow manually
Waste Storage (not associated with landfill)	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	~~Emptied out Battery & electronics area~~ ~~No longer accepting freon~~
Soil Stockpiles	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	Taking soils from stockpile area
Sanitary Landfill Operations	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	
Access Roads	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	
Public Drop-off Area	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	No longer accepting freon appliances
General Housekeeping	Y (N) NA	(Y) N NA	Y (N) NA	Y (N) NA	

ATTACHMENT B (CONTINUED)
Quarterly Facility SWPPP Inspection Form
Advanced Disposal Services Glacier Ridge Landfill

Outfall Inspection											
Outfall Number (See Figures I-1 and I-2)	Discharge Flow Present?	If so, is there a sheen or discoloration?	Turbidity			Floating Material (other than oil or grease)	Unusual Odors?	Comments
Outfall 1	Y (N)	Y N (NA)	Minimal	Moderate	High	Y (N)	Y (N)	
~~Outfall 2~~	~~Y N~~	~~Y N NA~~	~~Minimal~~	~~Moderate~~	~~High~~	~~Y N~~	~~Y N~~	
Outfall 2R	(Y) N	Y (N) NA	Minimal	Moderate	High	Y (N)	Y (N)	few Plastic Bags around edge
Outfall 3A	(Y) N	Y (N) NA	Minimal	Moderate	High	Y (N)	Y (N)	
Outfall 3B	Y (N)	Y N (NA)	Minimal	Moderate	High	Y (N)	Y (N)	
Outfall 4A	Y (N)	Y N (NA)	Minimal	Moderate	High	Y (N)	Y (N)	
Outfall 4B	Y (N)	Y N (NA)	Minimal	Moderate	High	Y (N)	Y (N)	
Outfall 5A	(Y) N	Y (N) NA	Minimal	Moderate	High	Y (N)	Y (N)	
Outfall 5B	Y (N)	Y N (NA)	Minimal	Moderate	High	Y (N)	Y (N)	
~~Outfall 6A~~	~~Y N~~	~~Y N NA~~	~~Minimal~~	~~Moderate~~	~~High~~	Y N	Y N	
~~Outfall 6B~~	~~Y N~~	~~Y N NA~~	~~Minimal~~	~~Moderate~~	~~High~~	Y N	~~Y N~~	
Outfall 7	Y (N)	Y N (NA)	Minimal	Moderate	High	Y (N)	Y (N)	
Outfall 8	Y (N)	Y N (NA)	Minimal	Moderate	High	Y (N)	Y (N)	

SWPPP Quarterly Structural Control Inspection Worksheet

Glacier Ridge Landfill

Quarter: 4th Date: 11/28/16 Name of Inspector: Jamal Manger

Sedimentation Basins:

Basin	Erosion Present?		Sed. Level Acceptable?		Debris/Leachate Present?		Comments
	Yes	No	Yes	No	Yes	No	
SB – 1		X	X			X	
SB – 2		X	X			X	Picked up plastic bags in the area along the perimeter
SB – 3		X	X			X	
SB – 4		X	X			X	
SB – 5		X	X			X	
~~SB – 6~~							

Drainage Ditches, Culverts, Flumes, Diversion Berms, Energy Dissipaters:

☒ No Concerns Noted, or

☐ See Noted Issues Below

Location	Description	Observations

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter		Year	
4th		2016	

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
1	Discharge Pipe

Time of Rain Event (military)	Time of Inspection (~~military~~)	Estimated Rain Event Total (in inches)
12:00 -	2:00 pm	.9 inches

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	11/28/16

Facility Name			
Advanced Disposal Glacier Ridge Landfill			
Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☒ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☒ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☒ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☒ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☒ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
4th	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
2R	Discharge Pipe end of sed Basin

Time of Rain Event (military)	Time of Inspection (~~military~~)	Estimated Rain Event Total (in inches)
12:00 – Present	2:15 pm	.9 inches

Name of Person Conducting Inspection	Inspection Date
Jake Manegold	11/28/16

Facility Name			
Advanced Disposal Glacier Ridge Landfill			
Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☒ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☒ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☒ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☒ Garbage	☐ Film	☐ Other:
Stains:	☒ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

Some plastic bags around edge of Sed Basin

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
4th	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
3A	Discharge Pipe

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
12:00 – Present	2:30 pm	~~11/26/16~~ .9 inches

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	11/28/16

Facility Name

Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☑ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☑ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☒ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☒ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☒ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

~~No discharge.~~ See .

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
4th	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
3B	Bio filter at end of Pond

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
12:00-Present	2:45 PM	.9 inches

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	11/28/16

Facility Name			
Advanced Disposal Glacier Ridge Landfill			
Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge during inspection

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
4th	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
4A	Discharge Pipe

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
12:00 - Present	3:00pm	.9

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	11/28/16

Facility Name

Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge during event

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
4th	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
4B	

Time of Rain Event (military)	Time of Inspection (~~military~~)	Estimated Rain Event Total (in inches)
12:00 - Present	3:15 PM	.9

Name of Person Conducting Inspection	Inspection Date
Jake Marcyeloftsky	11/28/16

Facility Name
Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge during rain event

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
4th	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
5A	Discharge Pipe

Time of Rain Event (military)	Time of Inspection (~~military~~)	Estimated Rain Event Total (in inches)
12:00 – Present	3:30pm	.9

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	11/28/16

Facility Name			
Advanced Disposal Glacier Ridge Landfill			
Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☒ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☒ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☒ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☒ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☒ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
4th	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
5B	Biofilter

Time of Rain Event (military)	Time of Inspection (~~military~~)	Estimated Rain Event Total (in inches)
12:00- Present	3:45pm	~~.5~~ .9

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	11/28/16

Facility Name
Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge Present

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
4th	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
7	Swale

Time of Rain Event (military)	Time of Inspection (military)	Estimated Rain Event Total (in inches)
12:00 - Present	4:00pm	.9

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	11/28/16

Facility Name
Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	**Horicon**	**Wisconsin**	**53032**

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge during inspection

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

Quarterly Outfall Visual Monitoring – Field Sampling Sheet

Quarter	Year
4th	2016

Outfall Number	Description of Outfall (i.e. – ditch, concrete pipe, grassed swale, etc.)
8	Wetland

Time of Rain Event (military)	Time of Inspection (~~military~~)	Estimated Rain Event Total (in inches)
12:00 - Present	4:15 pm	.9

Name of Person Conducting Inspection	Inspection Date
Jake Margelofsky	11/28/16

Facility Name
Advanced Disposal Glacier Ridge Landfill

Street Address	City	State	Zip Code
N7296 County Road V	Horicon	Wisconsin	53032

Observations:

Color:	☐ Clear	☐ Red	☐ Yellow	☐ Brown	☐ Other:
Odor:	☐ None	☐ Musty	☐ Sewage	☐ Rotten Egg	☐ Other:
Clarity:	☐ Clear	☐ Cloudy	☐ Opaque	☐ Dark	☐ Other:
Solids:	☐ None	☐ Foam	☐ Garbage	☐ Film	☐ Other:
Stains:	☐ None	☐ Oil	☐ Sludge	☐ Sediments	☐ Other:

Comments:

No discharge during inspection

Protocol Summary:

- Perform Quarterly Visual Monitoring Inspections at all storm water discharge outfalls.
- Inspections are to be performed as soon as practical, but no more than 1 hour after a weather event that yields no less than 0.10" inches of precipitation.
- Collect a water sample at each outfall location in a clean, clear glass jar by submerging the jar into the middle of the discharge stream.
- Your examination shall document observations of color, odor, clarity, suspended solids, settled solids, foam, oil sheen, and any other obvious indications of storm water pollution.
- Where feasible, the same individual shall examine and document the discharges of the life of the permit.
- No inspection shall be performed within 72 hours of any previous quarter's Inspections.

Advanced Disposal

APPENDIX F

Biopile Processing Facility

Attachment F-1

Pre-treatment Analytical Results

GLACIER RIDGE LANDFILL

Bio Pile #2016

January 28, 2015 through October 31, 2016

PROFILE #		GENERATOR	MATERIAL		TONS	DRO	GRO
GRL 06067	B	Alliant Energy	C-Soil/ Pet-Fuel Oil	34D @	5.91	27,391	
GRL 14108	B	Kngston Corner LLC	C-Soil/ Pet-Used Oils	34F @	85.14	3,380	
GRL 15007	B	Premium Environmental	C-Soil/ Pet-Fuel Oil	34D @	133.27	8,750	
GRL 15022	B	Union Pacific Railroad	C-Soil/ Pet-Fuel Oil	34D @	26.99	6,250	
GRL 15035	B	City of Beaver Dam	C-Soil/ Pet-Ldd Gas-ADC	33A @	18.22		924
GRL 15066	B	X-Cel Tooling	C-Soil/ Pet-Fuel Oil	34D @	0.67	5,000	
GRL 15070	B	John Deere Horicon Works	C-Soil/ Pet-Fuel Oil	34D @	1,446.00	2,000	460
GRL 15085	B	Helings/Ruth Braunschweig Property	C-Soil/ Pet-Unldd Gas-ADC	33B @	559.81		535
GRL 15111	B	John Deere Horicon Works	C-Soil/ Pet-Used Oils	34F @	44.54	2,555	
GRL 16004	B	WisDOT ID #3364-03-73 Cole's Amoco	C-Soil/ Pet-Ldd Gas-ADC	33A @	1,043.29	3,000	3,000
GRL 16009	B	Sanimax	C-Soil/ Pet-Fuel Oil	34D @	55.40	25,450	
GRL 16036	B	Herman Management Company	C-Soil/ Pet-Fuel Oil	34D @	5.12	4,710	
GRL 16059	B	Caseys	C-Soil/ Pet-Unldd Gas-ADC	33B @	0.26	386	
		Soils incorporated from Previous Bio Piles			11,000.00		
		Soils from LGRL Waste Relocation			17,560.00		
					31,984.62		

Attachment F-2

Post-treatment Analytical Results

ADS Glacier Ridge Landfill
Post-Treatment Sampling
November 2016

Biopile Number #2016					
Sample Location ID	Sample Date	Sample Time	PID (ppm)	DRO (mg/kg)	GRO (mg/kg)
BP 2016 - 1A	11/21/2016	1015	0	5.4J	<2.7
BP 2016 - 1B	11/21/2016	1020	1	10.6	<2.8
BP 2016 - 1C	11/21/2016	1025	5	5.7	<2.8
BP 2016 - 2A	11/21/2016	1030	3	156	6.4
BP 2016 - 2B	11/21/2016	1035	10	283	38.0
BP 2016 - 2C	11/21/2016	1040	5	114	<2.7
BP 2016 - 3A	11/21/2016	1045	4	65.9	<2.7
BP 2016 - 3B	11/21/2016	1050	112	498	131
BP 2016 - 3C	11/21/2016	1100	20	19.2	4.7J
BP 2016 - 4A	11/21/2016	1105	12	283	9.2
BP 2016 - 4B	11/21/2016	1110	75	87.8	28.0
BP 2016 - 4C	11/21/2016	1115	170	6,270	57.7
BP 2016 - 5A	11/21/2016	1120	15	49.0	<2.7
BP 2016 - 5B	11/21/2016	1125	32	74.7	3.7J
BP 2016 - 5C	11/21/2016	1130	200	244	111
BP 2016 - 6A	11/21/2016	1135	25	40.4	<2.7
BP 2016 - 6B	11/21/2016	1140	18	28.5	<2.7
BP 2016 - 6C	11/21/2016	1145	88	16.7	15.5
BP 2016 - 7A	11/21/2016	1150	7	13.7	<2.8
BP 2016 - 7B	11/21/2016	1155	35	106	15.8
BP 2016 - 7C	11/21/2016	1200	90	177	23.1
BP 2016 - 8A	11/21/2016	1210	42	12.6	<2.8
BP 2016 - 8B	11/21/2016	1215	95	82.0	14.2
BP 2016 - 8C	11/21/2016	1220	185	168	40.4
BP 2016 - 9A	11/21/2016	1225	0	51.3	<2.7
BP 2016 - 9B	11/21/2016	1230	60	143	22.4
BP 2016 - 9C	11/21/2016	1235	100	20.1	15.0
BP 2016 - 10A	11/21/2016	1240	20	3.2J	<2.7
BP 2016 - 10B	11/21/2016	1245	40	19.7	5.2J
BP 2016 - 10C	11/21/2016	1255	180	346	84.7
BP 2016 - 11A	11/21/2016	1300	28	36.9	<2.7
BP 2016 - 11B	11/21/2016	1305	56	19.6	4.9J
BP 2016 - 11C	11/21/2016	1310	45	15.6	<2.8

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 20, 2016

Frank Perugini
Environmental Sampling Corporation
W125 S9808 North Cape Road
Muskego, WI 53150

RE: Project: 2016 BIOPILE
Pace Project No.: 40142436

Dear Frank Perugini:
Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Varga
cindy.varga@pacelabs.com
Project Manager

Enclosures

cc: ESC Staff, Environmental Sampling Corporation

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
Alaska Certification UST-107
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 2016 BIOPILE
Pace Project No.: 40142436

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40142436001	BP-2016 1A	Solid	11/21/16 10:15	11/22/16 07:40
40142436002	BP-2016 1B	Solid	11/21/16 10:20	11/22/16 07:40
40142436003	BP-2016 1C	Solid	11/21/16 10:25	11/22/16 07:40
40142436004	BP-2016 2A	Solid	11/21/16 10:30	11/22/16 07:40
40142436005	BP-2016 2B	Solid	11/21/16 10:35	11/22/16 07:40
40142436006	BP-2016 2C	Solid	11/21/16 10:40	11/22/16 07:40
40142436007	BP-2016 3A	Solid	11/21/16 10:45	11/22/16 07:40
40142436008	BP-2016 3B	Solid	11/21/16 10:50	11/22/16 07:40
40142436009	BP-2016 3C	Solid	11/21/16 11:00	11/22/16 07:40
40142436010	BP-2016 4A	Solid	11/21/16 11:05	11/22/16 07:40
40142436011	BP-2016 4B	Solid	11/21/16 11:10	11/22/16 07:40
40142436012	BP-2016 4C	Solid	11/21/16 11:15	11/22/16 07:40
40142436013	BP-2016 5A	Solid	11/21/16 11:20	11/22/16 07:40
40142436014	BP-2016 5B	Solid	11/21/16 11:25	11/22/16 07:40
40142436015	BP-2016 5C	Solid	11/21/16 11:30	11/22/16 07:40
40142436016	BP-2016 6A	Solid	11/21/16 11:35	11/22/16 07:40
40142436017	BP-2016 6B	Solid	11/21/16 11:40	11/22/16 07:40
40142436018	BP-2016 6C	Solid	11/21/16 11:45	11/22/16 07:40
40142436019	BP-2016 7A	Solid	11/21/16 11:50	11/22/16 07:40
40142436020	BP-2016 7B	Solid	11/21/16 11:55	11/22/16 07:40
40142436021	BP-2016 7C	Solid	11/21/16 12:00	11/22/16 07:40
40142436022	BP-2016 8A	Solid	11/21/16 12:10	11/22/16 07:40
40142436023	BP-2016 8B	Solid	11/21/16 12:15	11/22/16 07:40
40142436024	BP-2016 8C	Solid	11/21/16 12:20	11/22/16 07:40
40142436025	BP-2016 9A	Solid	11/21/16 12:25	11/22/16 07:40
40142436026	BP-2016 9B	Solid	11/21/16 12:30	11/22/16 07:40
40142436027	BP-2016 9C	Solid	11/21/16 12:35	11/22/16 07:40
40142436028	BP-2016 10A	Solid	11/21/16 12:40	11/22/16 07:40
40142436029	BP-2016 10B	Solid	11/21/16 12:45	11/22/16 07:40
40142436030	BP-2016 10C	Solid	11/21/16 12:55	11/22/16 07:40
40142436031	BP-2016 11A	Solid	11/21/16 13:00	11/22/16 07:40
40142436032	BP-2016 11B	Solid	11/21/16 13:05	11/22/16 07:40
40142436033	BP-2016 11C	Solid	11/21/16 13:10	11/22/16 07:40

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: 2016 BIOPILE
Pace Project No.: 40142436

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40142436001	BP-2016 1A	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436002	BP-2016 1B	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436003	BP-2016 1C	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436004	BP-2016 2A	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436005	BP-2016 2B	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436006	BP-2016 2C	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436007	BP-2016 3A	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436008	BP-2016 3B	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436009	BP-2016 3C	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436010	BP-2016 4A	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436011	BP-2016 4B	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436012	BP-2016 4C	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436013	BP-2016 5A	WI MOD DRO	MT	2	PASI-M

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: 2016 BIOPILE
Pace Project No.: 40142436

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436014	**BP-2016 5B**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436015	**BP-2016 5C**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436016	**BP-2016 6A**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436017	**BP-2016 6B**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436018	**BP-2016 6C**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436019	**BP-2016 7A**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436020	**BP-2016 7B**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436021	**BP-2016 7C**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436022	**BP-2016 8A**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436023	**BP-2016 8B**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436024	**BP-2016 8C**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436025	**BP-2016 9A**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G

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SAMPLE ANALYTE COUNT

Project: 2016 BIOPILE
Pace Project No.: 40142436

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	KTS	1	PASI-G
40142436026	**BP-2016 9B**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436027	**BP-2016 9C**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436028	**BP-2016 10A**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436029	**BP-2016 10B**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436030	**BP-2016 10C**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436031	**BP-2016 11A**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436032	**BP-2016 11B**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40142436033	**BP-2016 11C**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	ALD	2	PASI-G
		ASTM D2974-87	KTS	1	PASI-G

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Sample: BP-2016 1A **Lab ID: 40142436001** Collected: 11/21/16 10:15 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**5.4J**	mg/kg	6.3	1.9	1	11/28/16 13:39	12/01/16 11:10		
Surrogates									
n-Triacontane (S)	89	%.	50-150		1	11/28/16 13:39	12/01/16 11:10	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.7**	mg/kg	5.4	2.7	1	11/23/16 05:30	11/23/16 22:49		
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/23/16 22:49	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.8**	%	0.10	0.10	1		12/02/16 13:48		

Sample: BP-2016 1B **Lab ID: 40142436002** Collected: 11/21/16 10:20 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**10.6**	mg/kg	7.3	2.2	1	11/28/16 13:39	12/01/16 09:54		T6
Surrogates									
n-Triacontane (S)	77	%.	50-150		1	11/28/16 13:39	12/01/16 09:54	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.8**	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 23:15		
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	11/23/16 05:30	11/23/16 23:15	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.9**	%	0.10	0.10	1		12/02/16 13:48		

Sample: BP-2016 1C **Lab ID: 40142436003** Collected: 11/21/16 10:25 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**5.7**	mg/kg	5.4	1.6	1	11/28/16 13:39	12/01/16 10:01		
Surrogates									
n-Triacontane (S)	72	%.	50-150		1	11/28/16 13:39	12/01/16 10:01	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.8**	mg/kg	5.5	2.8	1	11/23/16 05:30	11/23/16 23:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Sample: BP-2016 1C **Lab ID: 40142436003** Collected: 11/21/16 10:25 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	11/23/16 05:30	11/23/16 23:41	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.7**	%	0.10	0.10	1		12/02/16 13:48		

Sample: BP-2016 2A **Lab ID: 40142436004** Collected: 11/21/16 10:30 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**156**	mg/kg	29.1	8.7	5	11/28/16 13:39	12/01/16 12:41		T6
Surrogates									
n-Triacontane (S)	72	%.	50-150		5	11/28/16 13:39	12/01/16 12:41	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**6.4**	mg/kg	5.4	2.7	1	11/23/16 05:30	11/24/16 00:07		
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/24/16 00:07	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.8**	%	0.10	0.10	1		12/02/16 13:48		

Sample: BP-2016 2B **Lab ID: 40142436005** Collected: 11/21/16 10:35 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**283**	mg/kg	34.2	10.3	5	11/28/16 13:39	12/01/16 12:34		T6
Surrogates									
n-Triacontane (S)	78	%.	50-150		5	11/28/16 13:39	12/01/16 12:34	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**38.0**	mg/kg	5.5	2.7	1	11/23/16 05:30	11/24/16 00:32		G+
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1	11/23/16 05:30	11/24/16 00:32	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.8**	%	0.10	0.10	1		12/02/16 13:48		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Sample: BP-2016 2C **Lab ID: 40142436006** Collected: 11/21/16 10:40 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**114**	mg/kg	6.4	1.9	1	11/28/16 13:39	12/01/16 10:49		T6
Surrogates									
n-Triacontane (S)	73	%.	50-150		1	11/28/16 13:39	12/01/16 10:49	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.7**	mg/kg	5.4	2.7	1	11/23/16 05:30	11/29/16 10:11		
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/23/16 05:30	11/29/16 10:11	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.4**	%	0.10	0.10	1		12/02/16 13:48		

Sample: BP-2016 3A **Lab ID: 40142436007** Collected: 11/21/16 10:45 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**65.9**	mg/kg	7.3	2.2	1	11/28/16 13:39	12/01/16 10:22		T6
Surrogates									
n-Triacontane (S)	79	%.	50-150		1	11/28/16 13:39	12/01/16 10:22	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.7**	mg/kg	5.4	2.7	1	11/23/16 05:30	11/24/16 01:24		
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/23/16 05:30	11/24/16 01:24	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.2**	%	0.10	0.10	1		12/02/16 13:49		

Sample: BP-2016 3B **Lab ID: 40142436008** Collected: 11/21/16 10:50 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**498**	mg/kg	72.6	21.8	10	11/28/16 13:39	12/01/16 12:14		T6
Surrogates									
n-Triacontane (S)	112	%.	50-150		10	11/28/16 13:39	12/01/16 12:14	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**131**	mg/kg	5.7	2.9	1	11/23/16 05:30	11/24/16 05:15		G+

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ANALYTICAL RESULTS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Sample: BP-2016 3B **Lab ID: 40142436008** Collected: 11/21/16 10:50 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		1	11/23/16 05:30	11/24/16 05:15	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.9**	%	0.10	0.10	1		12/02/16 13:49		

Sample: BP-2016 3C **Lab ID: 40142436009** Collected: 11/21/16 11:00 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**19.2**	mg/kg	7.4	2.2	1	11/28/16 13:39	12/01/16 11:16		T6
Surrogates									
n-Triacontane (S)	79	%.	50-150		1	11/28/16 13:39	12/01/16 11:16	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**4.7J**	mg/kg	5.5	2.8	1	11/23/16 05:30	11/24/16 01:49		
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/24/16 01:49	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.6**	%	0.10	0.10	1		12/02/16 13:49		

Sample: BP-2016 4A **Lab ID: 40142436010** Collected: 11/21/16 11:05 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**283**	mg/kg	35.5	10.7	5	11/28/16 13:39	12/01/16 12:48		T6
Surrogates									
n-Triacontane (S)	85	%.	50-150		5	11/28/16 13:39	12/01/16 12:48	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**9.2**	mg/kg	5.4	2.7	1	11/23/16 05:30	11/24/16 02:15		
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/24/16 02:15	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.9**	%	0.10	0.10	1		12/02/16 13:49		

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ANALYTICAL RESULTS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Sample: BP-2016 4B **Lab ID: 40142436011** Collected: 11/21/16 11:10 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**87.8**	mg/kg	7.8	2.4	1	11/28/16 13:39	12/01/16 10:08		T6
Surrogates									
n-Triacontane (S)	80	%.	50-150		1	11/28/16 13:39	12/01/16 10:08	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**28.0**	mg/kg	5.6	2.8	1	11/23/16 05:30	11/24/16 06:59		G+
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/24/16 06:59	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.9**	%	0.10	0.10	1		12/02/16 13:49		

Sample: BP-2016 4C **Lab ID: 40142436012** Collected: 11/21/16 11:15 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**6270**	mg/kg	966	290	5	11/28/16 13:39	12/01/16 12:27		T6
Surrogates									
n-Triacontane (S)	103	%.	50-150		5	11/28/16 13:39	12/01/16 12:27	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**57.7**	mg/kg	5.5	2.8	1	11/23/16 05:30	11/24/16 03:32		G+
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		1	11/23/16 05:30	11/24/16 03:32	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.9**	%	0.10	0.10	1		12/02/16 13:49		

Sample: BP-2016 5A **Lab ID: 40142436013** Collected: 11/21/16 11:20 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**49.0**	mg/kg	7.3	2.2	1	11/28/16 13:39	12/01/16 10:56		T6
Surrogates									
n-Triacontane (S)	78	%.	50-150		1	11/28/16 13:39	12/01/16 10:56	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.7**	mg/kg	5.4	2.7	1	11/23/16 05:30	11/24/16 07:24		

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ANALYTICAL RESULTS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Sample: BP-2016 5A **Lab ID: 40142436013** Collected: 11/21/16 11:20 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	11/23/16 05:30	11/24/16 07:24	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.9**	%	0.10	0.10	1		12/02/16 16:17		

Sample: BP-2016 5B **Lab ID: 40142436014** Collected: 11/21/16 11:25 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**74.7**	mg/kg	8.4	2.5	1	11/28/16 13:39	12/01/16 09:48		T6
Surrogates									
n-Triacontane (S)	81	%.	50-150		1	11/28/16 13:39	12/01/16 09:48	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**3.7J**	mg/kg	6.4	3.2	1	11/23/16 05:30	11/24/16 07:50		
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/23/16 05:30	11/24/16 07:50	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.7**	%	0.10	0.10	1		12/02/16 16:18		

Sample: BP-2016 5C **Lab ID: 40142436015** Collected: 11/21/16 11:30 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**244**	mg/kg	36.2	10.9	5	11/28/16 13:39	12/01/16 12:21		T6
Surrogates									
n-Triacontane (S)	96	%.	50-150		5	11/28/16 13:39	12/01/16 12:21	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**111**	mg/kg	5.6	2.8	1	11/23/16 05:30	11/24/16 04:24		G+
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/24/16 04:24	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.0**	%	0.10	0.10	1		12/02/16 16:18		

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ANALYTICAL RESULTS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Sample: BP-2016 6A **Lab ID: 40142436016** Collected: 11/21/16 11:35 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**40.4**	mg/kg	6.2	1.8	1	11/28/16 13:19	12/02/16 10:08		T6
Surrogates									
n-Triacontane (S)	83	%.	50-150		1	11/28/16 13:19	12/02/16 10:08	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.7**	mg/kg	5.4	2.7	1	11/23/16 05:30	11/24/16 08:16		
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/24/16 08:16	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.0**	%	0.10	0.10	1		12/02/16 14:29		

Sample: BP-2016 6B **Lab ID: 40142436017** Collected: 11/21/16 11:40 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**28.5**	mg/kg	7.3	2.2	1	11/28/16 13:19	12/02/16 10:56		T6
Surrogates									
n-Triacontane (S)	83	%.	50-150		1	11/28/16 13:19	12/02/16 10:56	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.7**	mg/kg	5.3	2.7	1	11/23/16 05:30	11/24/16 08:42		
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/23/16 05:30	11/24/16 08:42	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.2**	%	0.10	0.10	1		12/02/16 16:18		

Sample: BP-2016 6C **Lab ID: 40142436018** Collected: 11/21/16 11:45 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**16.7**	mg/kg	7.7	2.3	1	11/28/16 13:19	12/02/16 11:44		T6
Surrogates									
n-Triacontane (S)	91	%.	50-150		1	11/28/16 13:19	12/02/16 11:44	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**15.5**	mg/kg	5.7	2.8	1	11/23/16 05:30	11/23/16 10:24		G+

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Sample: BP-2016 6C **Lab ID: 40142436018** Collected: 11/21/16 11:45 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/23/16 10:24	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.7**	%	0.10	0.10	1		12/02/16 16:18		

Sample: BP-2016 7A **Lab ID: 40142436019** Collected: 11/21/16 11:50 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**13.7**	mg/kg	6.4	1.9	1	11/28/16 13:19	12/02/16 10:01		T6
Surrogates									
n-Triacontane (S)	84	%.	50-150		1	11/28/16 13:19	12/02/16 10:01	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.8**	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 10:50		
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1	11/23/16 05:30	11/23/16 10:50	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.3**	%	0.10	0.10	1		12/02/16 15:47		

Sample: BP-2016 7B **Lab ID: 40142436020** Collected: 11/21/16 11:55 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**106**	mg/kg	7.4	2.2	1	11/28/16 13:19	12/02/16 10:42		T6,T7
Surrogates									
n-Triacontane (S)	90	%.	50-150		1	11/28/16 13:19	12/02/16 10:42	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**15.8**	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 11:16		G+
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/23/16 11:16	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.4**	%	0.10	0.10	1		12/02/16 15:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Sample: BP-2016 7C **Lab ID: 40142436021** Collected: 11/21/16 12:00 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**177**	mg/kg	6.9	2.1	1	11/28/16 13:19	12/02/16 10:28		T6,T7
Surrogates									
n-Triacontane (S)	89	%.	50-150		1	11/28/16 13:19	12/02/16 10:28	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**23.1**	mg/kg	5.5	2.8	1	11/23/16 05:30	11/23/16 11:41		G+
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	11/23/16 05:30	11/23/16 11:41	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.7**	%	0.10	0.10	1		12/02/16 15:47		

Sample: BP-2016 8A **Lab ID: 40142436022** Collected: 11/21/16 12:10 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**12.6**	mg/kg	6.8	2.1	1	11/28/16 13:19	12/02/16 11:16		T6
Surrogates									
n-Triacontane (S)	81	%.	50-150		1	11/28/16 13:19	12/02/16 11:16	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.8**	mg/kg	5.6	2.8	1	11/23/16 05:30	11/29/16 09:45		
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/29/16 09:45	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.5**	%	0.10	0.10	1		12/02/16 15:48		

Sample: BP-2016 8B **Lab ID: 40142436023** Collected: 11/21/16 12:15 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**82.0**	mg/kg	7.7	2.3	1	11/28/16 13:19	12/02/16 09:47		T6,T7
Surrogates									
n-Triacontane (S)	100	%.	50-150		1	11/28/16 13:19	12/02/16 09:47	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**14.2**	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 12:33		G+

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ANALYTICAL RESULTS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Sample: BP-2016 8B **Lab ID: 40142436023** Collected: 11/21/16 12:15 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1	11/23/16 05:30	11/23/16 12:33	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.1**	%	0.10	0.10	1		12/02/16 15:48		

Sample: BP-2016 8C **Lab ID: 40142436024** Collected: 11/21/16 12:20 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**168**	mg/kg	6.9	2.1	1	11/28/16 13:19	12/02/16 10:22		T6,T7
Surrogates									
n-Triacontane (S)	92	%.	50-150		1	11/28/16 13:19	12/02/16 10:22	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**40.4**	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 12:58		G+
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/23/16 12:58	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.1**	%	0.10	0.10	1		12/02/16 15:48		

Sample: BP-2016 9A **Lab ID: 40142436025** Collected: 11/21/16 12:25 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**51.3**	mg/kg	6.1	1.8	1	11/28/16 13:19	12/02/16 11:23		T6
Surrogates									
n-Triacontane (S)	96	%.	50-150		1	11/28/16 13:19	12/02/16 11:23	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.7**	mg/kg	5.3	2.7	1	11/23/16 05:30	11/23/16 13:24		
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	11/23/16 05:30	11/23/16 13:24	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.2**	%	0.10	0.10	1		12/02/16 15:48		

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ANALYTICAL RESULTS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Sample: BP-2016 9B **Lab ID: 40142436026** Collected: 11/21/16 12:30 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**143**	mg/kg	7.1	2.1	1	11/28/16 13:19	12/02/16 10:35		T6,T7
Surrogates									
n-Triacontane (S)	83	%.	50-150		1	11/28/16 13:19	12/02/16 10:35	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**22.4**	mg/kg	5.5	2.8	1	11/23/16 05:30	11/23/16 13:50		G+
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1	11/23/16 05:30	11/23/16 13:50	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.1**	%	0.10	0.10	1		12/02/16 15:48		

Sample: BP-2016 9C **Lab ID: 40142436027** Collected: 11/21/16 12:35 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**20.1**	mg/kg	6.9	2.1	1	11/28/16 13:19	12/02/16 11:37		T6
Surrogates									
n-Triacontane (S)	96	%.	50-150		1	11/28/16 13:19	12/02/16 11:37	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**15.0**	mg/kg	5.7	2.8	1	11/23/16 05:30	11/23/16 14:16		G+
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/23/16 14:16	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.2**	%	0.10	0.10	1		12/02/16 15:48		

Sample: BP-2016 10A **Lab ID: 40142436028** Collected: 11/21/16 12:40 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**3.2J**	mg/kg	6.8	2.0	1	11/28/16 13:19	12/02/16 11:10		
Surrogates									
n-Triacontane (S)	109	%.	50-150		1	11/28/16 13:19	12/02/16 11:10	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.7**	mg/kg	5.5	2.7	1	11/23/16 05:30	11/23/16 16:24		

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ANALYTICAL RESULTS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Sample: BP-2016 10A **Lab ID: 40142436028** Collected: 11/21/16 12:40 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/23/16 05:30	11/23/16 16:24	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.4**	%	0.10	0.10	1		12/02/16 15:48		

Sample: BP-2016 10B **Lab ID: 40142436029** Collected: 11/21/16 12:45 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**19.7**	mg/kg	7.5	2.3	1	11/28/16 13:19	12/02/16 11:03		T6
Surrogates									
n-Triacontane (S)	105	%.	50-150		1	11/28/16 13:19	12/02/16 11:03	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**5.2J**	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 16:50		
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/23/16 16:50	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.5**	%	0.10	0.10	1		12/02/16 15:48		

Sample: BP-2016 10C **Lab ID: 40142436030** Collected: 11/21/16 12:55 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**346**	mg/kg	41.7	12.5	5	11/28/16 13:19	12/02/16 12:11		T6
Surrogates									
n-Triacontane (S)	104	%.	50-150		5	11/28/16 13:19	12/02/16 12:11	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**84.7**	mg/kg	5.5	2.8	1	11/23/16 05:30	11/23/16 15:33		G+
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1	11/23/16 05:30	11/23/16 15:33	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.3**	%	0.10	0.10	1		12/02/16 15:48		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Sample: BP-2016 11A **Lab ID: 40142436031** Collected: 11/21/16 13:00 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**36.9**	mg/kg	7.1	2.1	1	11/28/16 13:19	12/02/16 10:49		T6
Surrogates									
n-Triacontane (S)	91	%.	50-150		1	11/28/16 13:19	12/02/16 10:49	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.7**	mg/kg	5.4	2.7	1	11/23/16 05:30	11/23/16 17:15		
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/23/16 17:15	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.2**	%	0.10	0.10	1		12/02/16 15:48		

Sample: BP-2016 11B **Lab ID: 40142436032** Collected: 11/21/16 13:05 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**19.6**	mg/kg	7.5	2.3	1	11/28/16 13:19	12/02/16 11:30		T6
Surrogates									
n-Triacontane (S)	107	%.	50-150		1	11/28/16 13:19	12/02/16 11:30	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**4.9J**	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 17:41		
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/23/16 05:30	11/23/16 17:41	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.3**	%	0.10	0.10	1		12/02/16 15:48		

Sample: BP-2016 11C **Lab ID: 40142436033** Collected: 11/21/16 13:10 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
WDRO C10-C28	**15.6**	mg/kg	6.3	1.9	1	11/28/16 13:19	12/02/16 09:54		T6
Surrogates									
n-Triacontane (S)	97	%.	50-150		1	11/28/16 13:19	12/02/16 09:54	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.8**	mg/kg	5.6	2.8	1	11/23/16 05:30	11/23/16 18:07		

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ANALYTICAL RESULTS

Project: 2016 BIOPILE
Pace Project No.: 40142436

Sample: BP-2016 11C **Lab ID: 40142436033** Collected: 11/21/16 13:10 Received: 11/22/16 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/23/16 05:30	11/23/16 18:07	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.3**	%	0.10	0.10	1		12/02/16 15:48		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2016 BIOPILE
Pace Project No.: 40142436

QC Batch: 242308 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40142436001, 40142436002, 40142436003, 40142436004, 40142436005, 40142436006, 40142436007, 40142436008, 40142436009, 40142436010, 40142436011, 40142436012, 40142436013, 40142436014, 40142436015, 40142436016, 40142436017

METHOD BLANK: 1436266 Matrix: Solid
Associated Lab Samples: 40142436001, 40142436002, 40142436003, 40142436004, 40142436005, 40142436006, 40142436007, 40142436008, 40142436009, 40142436010, 40142436011, 40142436012, 40142436013, 40142436014, 40142436015, 40142436016, 40142436017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	<1.6	5.0	11/23/16 21:07	
a,a,a-Trifluorotoluene (S)	%	102	80-120	11/23/16 21:07	

LABORATORY CONTROL SAMPLE & LCSD: 1436267 1436268

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	10	10.3	10.0	103	100	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 2016 BIOPILE
Pace Project No.: 40142436

QC Batch: 242309 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40142436018, 40142436019, 40142436020, 40142436021, 40142436022, 40142436023, 40142436024, 40142436025, 40142436026, 40142436027, 40142436028, 40142436029, 40142436030, 40142436031, 40142436032, 40142436033

METHOD BLANK: 1436269 Matrix: Solid
Associated Lab Samples: 40142436018, 40142436019, 40142436020, 40142436021, 40142436022, 40142436023, 40142436024, 40142436025, 40142436026, 40142436027, 40142436028, 40142436029, 40142436030, 40142436031, 40142436032, 40142436033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	<1.6	5.0	11/23/16 08:42	
a,a,a-Trifluorotoluene (S)	%	101	80-120	11/23/16 08:42	

LABORATORY CONTROL SAMPLE & LCSD: 1436270 1436271

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	10	10.3	9.9	103	99	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				102	101	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 2016 BIOPILE
Pace Project No.: 40142436

QC Batch: 448968 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
Associated Lab Samples: 40142436001, 40142436002, 40142436003, 40142436004, 40142436005, 40142436006, 40142436007, 40142436008, 40142436009, 40142436010, 40142436011, 40142436012, 40142436013, 40142436014, 40142436015

METHOD BLANK: 2458213 Matrix: Solid
Associated Lab Samples: 40142436001, 40142436002, 40142436003, 40142436004, 40142436005, 40142436006, 40142436007, 40142436008, 40142436009, 40142436010, 40142436011, 40142436012, 40142436013, 40142436014, 40142436015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/kg	<2.3	7.7	12/01/16 09:20	
n-Triacontane (S)	%.	76	50-150	12/01/16 09:20	

LABORATORY CONTROL SAMPLE & LCSD: 2458214 2458215

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/kg	80	69.1	76.2	86	95	70-120	10	20	
n-Triacontane (S)	%.				76	86	50-150			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 2016 BIOPILE
Pace Project No.: 40142436

QC Batch: 448969 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
Associated Lab Samples: 40142436016, 40142436017, 40142436018, 40142436019, 40142436020, 40142436021, 40142436022, 40142436023, 40142436024, 40142436025, 40142436026, 40142436027, 40142436028, 40142436029, 40142436030, 40142436031, 40142436032, 40142436033

METHOD BLANK: 2458217 Matrix: Solid
Associated Lab Samples: 40142436016, 40142436017, 40142436018, 40142436019, 40142436020, 40142436021, 40142436022, 40142436023, 40142436024, 40142436025, 40142436026, 40142436027, 40142436028, 40142436029, 40142436030, 40142436031, 40142436032, 40142436033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/kg	<2.3	7.7	12/02/16 09:20	
n-Triacontane (S)	%.	87	50-150	12/02/16 09:20	

LABORATORY CONTROL SAMPLE & LCSD: 2458218 2458219

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/kg	80	70.6	70.1	88	88	70-120	1	20	
n-Triacontane (S)	%.				89	90	50-150			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 2016 BIOPILE
Pace Project No.: 40142436

QC Batch: 243138 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40142436001, 40142436002, 40142436003, 40142436004, 40142436005, 40142436006, 40142436007, 40142436008, 40142436009, 40142436010, 40142436011, 40142436012

SAMPLE DUPLICATE: 1440279

Parameter	Units	40142855002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.6	6.2	7	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 2016 BIOPILE
Pace Project No.: 40142436

QC Batch: 243143
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 40142436016

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 1440369

Parameter	Units	40142436016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.0	8.4	5	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2016 BIOPILE
Pace Project No.: 40142436

QC Batch: 243151 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40142436019, 40142436020, 40142436021, 40142436022, 40142436023, 40142436024, 40142436025, 40142436026, 40142436027, 40142436028, 40142436029, 40142436030, 40142436031, 40142436032, 40142436033

SAMPLE DUPLICATE: 1440387

Parameter	Units	40142436029 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.5	9.8	8	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2016 BIOPILE
Pace Project No.: 40142436

QC Batch: 243152 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40142436013, 40142436014, 40142436015, 40142436017, 40142436018

SAMPLE DUPLICATE: 1440466

Parameter	Units	40142436013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.9	8.0	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALIFIERS

Project: 2016 BIOPILE
Pace Project No.: 40142436

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-M	Pace Analytical Services - Minneapolis

WORKORDER QUALIFIERS

WO: 40142436

[1]	Revised repoort is report only GRO results.

ANALYTE QUALIFIERS

G+	Late peaks present outside the GRO window.
T6	High boiling point hydrocarbons are present in the sample.
T7	Low boiling point hydrocarbons are present in the sample.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2016 BIOPILE
Pace Project No.: 40142436

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40142436001	**BP-2016 1A**	WI MOD DRO	448968	WI MOD DRO	449622
40142436002	**BP-2016 1B**	WI MOD DRO	448968	WI MOD DRO	449622
40142436003	**BP-2016 1C**	WI MOD DRO	448968	WI MOD DRO	449622
40142436004	**BP-2016 2A**	WI MOD DRO	448968	WI MOD DRO	449622
40142436005	**BP-2016 2B**	WI MOD DRO	448968	WI MOD DRO	449622
40142436006	**BP-2016 2C**	WI MOD DRO	448968	WI MOD DRO	449622
40142436007	**BP-2016 3A**	WI MOD DRO	448968	WI MOD DRO	449622
40142436008	**BP-2016 3B**	WI MOD DRO	448968	WI MOD DRO	449622
40142436009	**BP-2016 3C**	WI MOD DRO	448968	WI MOD DRO	449622
40142436010	**BP-2016 4A**	WI MOD DRO	448968	WI MOD DRO	449622
40142436011	**BP-2016 4B**	WI MOD DRO	448968	WI MOD DRO	449622
40142436012	**BP-2016 4C**	WI MOD DRO	448968	WI MOD DRO	449622
40142436013	**BP-2016 5A**	WI MOD DRO	448968	WI MOD DRO	449622
40142436014	**BP-2016 5B**	WI MOD DRO	448968	WI MOD DRO	449622
40142436015	**BP-2016 5C**	WI MOD DRO	448968	WI MOD DRO	449622
40142436016	**BP-2016 6A**	WI MOD DRO	448969	WI MOD DRO	449916
40142436017	**BP-2016 6B**	WI MOD DRO	448969	WI MOD DRO	449916
40142436018	**BP-2016 6C**	WI MOD DRO	448969	WI MOD DRO	449916
40142436019	**BP-2016 7A**	WI MOD DRO	448969	WI MOD DRO	449916
40142436020	**BP-2016 7B**	WI MOD DRO	448969	WI MOD DRO	449916
40142436021	**BP-2016 7C**	WI MOD DRO	448969	WI MOD DRO	449916
40142436022	**BP-2016 8A**	WI MOD DRO	448969	WI MOD DRO	449916
40142436023	**BP-2016 8B**	WI MOD DRO	448969	WI MOD DRO	449916
40142436024	**BP-2016 8C**	WI MOD DRO	448969	WI MOD DRO	449916
40142436025	**BP-2016 9A**	WI MOD DRO	448969	WI MOD DRO	449916
40142436026	**BP-2016 9B**	WI MOD DRO	448969	WI MOD DRO	449916
40142436027	**BP-2016 9C**	WI MOD DRO	448969	WI MOD DRO	449916
40142436028	**BP-2016 10A**	WI MOD DRO	448969	WI MOD DRO	449916
40142436029	**BP-2016 10B**	WI MOD DRO	448969	WI MOD DRO	449916
40142436030	**BP-2016 10C**	WI MOD DRO	448969	WI MOD DRO	449916
40142436031	**BP-2016 11A**	WI MOD DRO	448969	WI MOD DRO	449916
40142436032	**BP-2016 11B**	WI MOD DRO	448969	WI MOD DRO	449916
40142436033	**BP-2016 11C**	WI MOD DRO	448969	WI MOD DRO	449916
40142436001	**BP-2016 1A**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436002	**BP-2016 1B**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436003	**BP-2016 1C**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436004	**BP-2016 2A**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436005	**BP-2016 2B**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436006	**BP-2016 2C**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436007	**BP-2016 3A**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436008	**BP-2016 3B**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436009	**BP-2016 3C**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436010	**BP-2016 4A**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436011	**BP-2016 4B**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436012	**BP-2016 4C**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436013	**BP-2016 5A**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436014	**BP-2016 5B**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436015	**BP-2016 5C**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2016 BIOPILE
Pace Project No.: 40142436

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40142436016	**BP-2016 6A**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436017	**BP-2016 6B**	TPH GRO/PVOC WI ext.	242308	WI MOD GRO	242311
40142436018	**BP-2016 6C**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436019	**BP-2016 7A**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436020	**BP-2016 7B**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436021	**BP-2016 7C**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436022	**BP-2016 8A**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436023	**BP-2016 8B**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436024	**BP-2016 8C**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436025	**BP-2016 9A**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436026	**BP-2016 9B**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436027	**BP-2016 9C**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436028	**BP-2016 10A**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436029	**BP-2016 10B**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436030	**BP-2016 10C**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436031	**BP-2016 11A**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436032	**BP-2016 11B**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436033	**BP-2016 11C**	TPH GRO/PVOC WI ext.	242309	WI MOD GRO	242312
40142436001	**BP-2016 1A**	ASTM D2974-87	243138		
40142436002	**BP-2016 1B**	ASTM D2974-87	243138		
40142436003	**BP-2016 1C**	ASTM D2974-87	243138		
40142436004	**BP-2016 2A**	ASTM D2974-87	243138		
40142436005	**BP-2016 2B**	ASTM D2974-87	243138		
40142436006	**BP-2016 2C**	ASTM D2974-87	243138		
40142436007	**BP-2016 3A**	ASTM D2974-87	243138		
40142436008	**BP-2016 3B**	ASTM D2974-87	243138		
40142436009	**BP-2016 3C**	ASTM D2974-87	243138		
40142436010	**BP-2016 4A**	ASTM D2974-87	243138		
40142436011	**BP-2016 4B**	ASTM D2974-87	243138		
40142436012	**BP-2016 4C**	ASTM D2974-87	243138		
40142436013	**BP-2016 5A**	ASTM D2974-87	243152		
40142436014	**BP-2016 5B**	ASTM D2974-87	243152		
40142436015	**BP-2016 5C**	ASTM D2974-87	243152		
40142436016	**BP-2016 6A**	ASTM D2974-87	243143		
40142436017	**BP-2016 6B**	ASTM D2974-87	243152		
40142436018	**BP-2016 6C**	ASTM D2974-87	243152		
40142436019	**BP-2016 7A**	ASTM D2974-87	243151		
40142436020	**BP-2016 7B**	ASTM D2974-87	243151		
40142436021	**BP-2016 7C**	ASTM D2974-87	243151		
40142436022	**BP-2016 8A**	ASTM D2974-87	243151		
40142436023	**BP-2016 8B**	ASTM D2974-87	243151		
40142436024	**BP-2016 8C**	ASTM D2974-87	243151		
40142436025	**BP-2016 9A**	ASTM D2974-87	243151		
40142436026	**BP-2016 9B**	ASTM D2974-87	243151		
40142436027	**BP-2016 9C**	ASTM D2974-87	243151		
40142436028	**BP-2016 10A**	ASTM D2974-87	243151		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2016 BIOPILE
Pace Project No.: 40142436

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40142436029	**BP-2016 10B**	ASTM D2974-87	243151		
40142436030	**BP-2016 10C**	ASTM D2974-87	243151		
40142436031	**BP-2016 11A**	ASTM D2974-87	243151		
40142436032	**BP-2016 11B**	ASTM D2974-87	243151		
40142436033	**BP-2016 11C**	ASTM D2974-87	243151		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

401424360

(Please Print Clearly)	
Company Name:	ESC
Branch/Location:	
Project Contact:	Scott Freimark
Phone:	414-427-5033
Project Number:	2016
Project Name:	Bayfield
Project State:	WI
Sampled By (Print):	Scott Freimark
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Scott Freimark
Mail To Company:	ESC
Mail To Address:	P.O. Box Mukego WI
Invoice To Contact:	
Invoice To Company:	ESC
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	Pick Letter				
					N	A	DRO	1-4oz cg A	1-4oz p A	2-40mL V F
					N	F	GRO			
001	BP-2016 1A	11/21/16	1015	S			2 2			
002	1B		1020				2 2			
003	1C		1025				2 2			
004	2A		1030				2 2			
005	2B		1035				2 2			
006	2C		1040				2 2			
007	3A		1045				2 2			
008	3B		1050				2 2			
009	3C		1100				2 2			
010	4A		1105				2 2			
011	4B		1110				2 2			
012	BP2016 4C	11/21/16	1117	S			2 2			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	11/21/16 1730		
Duncan	11-22-16 0740	Susan K. Uffi	11-22-16 0740
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 401424360

Receipt Temp = ROT °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / ~~Not Present~~ Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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CHAIN OF CUSTODY

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

(Please Print Clearly)

Company Name:	ESC
Branch/Location:	
Project Contact:	Scott Freimark
Phone:	414-427-5033
Project Number:	2016
Project Name:	Bropie
Project State:	WI
Sampled By (Print):	Scott Freimark
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	Scott Freimark
Mail To Company:	ESC
Mail To Address:	P.O. Box 12 Muskego WI
Invoice To Contact:	
Invoice To Company:	ESC
Invoice To Address:	
Invoice To Phone:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

					Analyses Requested		
				FILTERED? (YES/NO)	N	N	
				PRESERVATION (CODE)*	A	F	
PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	DRO	GRO	CLIENT COMMENTS / LAB COMMENTS (Lab Use Only)
013	BP-2016 5A	11/21/16	1120	S	2	2	1-4oz cg A, 1-4oz p A, 2-40ml v
014	5B	↓	1125	↓	2	2	↓
015	5C	↓	1130	↓	2	2	↓
016	6A	↓	1135	↓	2	2	↓
017	6B	↓	1140	↓	2	2	↓
018	6C	↓	1145	↓	2	2	↓
019	7A	↓	1150	↓	2	2	↓
020	7B	↓	1155	↓	2	2	↓
021	7C	↓	1200	↓	2	2	↓
022	8A	↓	1210	↓	2	2	↓
023	8B	↓	1215	↓	2	2	↓
024	BP2016-8C	11/21/16	1220	S	2	2	↓

Profile #: F

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	11/21/16 1720		
[signature]	11-22-16 0740	[signature]	11-22-16 0740

PACE Project No. 4014243[illegible]
Receipt Temp = ROT °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / ~~Not Present~~ Intact / Not Intact

Version 6.0 06/14/06
C019a(27Jun2006)
ORIGINAL

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

(Please Print Clearly)

Company Name:	ESC
Branch/Location:	
Project Contact:	Scott Freimark
Phone:	414-427-5033
Project Number:	2016
Project Name:	Biopile
Project State:	WI
Sampled By (Print):	Scott Freimark
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	Scott Freimark
Mail To Company:	ESC
Mail To Address:	PO Box 12 Muskego WI
Invoice To Contact:	
Invoice To Company:	ESC
Invoice To Address:	
Invoice To Phone:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO): N | N
PRESERVATION (CODE)*: A | F

Analyses Requested: DRO | GRO

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	DRO	GRO	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
025	BP-2016 9A	11/21/16	1225	S	2	2	1-4oz cg A	1-4oz p A	2-40ml V F
026	9B	↓	1230	↓	2	2	↓	↓	↓
027	9C	↓	1235	↓	2	2	↓	↓	↓
028	10A	↓	1240	↓	2	2	↓	↓	↓
029	10B	↓	1245	↓	2	2	↓	↓	↓
030	10C	↓	1255	↓	2	2	↓	↓	↓
031	11A	↓	1300	↓	2	2	↓	↓	↓
032	11B	↓	1305	↓	2	2	↓	↓	↓
033	BP2016-11C	11/21/16	1310	S	2	2	↓	↓	↓

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	11/21/16 1730		
[signature]	11-22-16 0740	[signature] Pace	11-22-16 0740

PACE Project No. 40142436

Receipt Temp = ROT °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Client Name: ESC

Project #: **WO# : 40142436**

40142436

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Durham

Tracking #: 1235643

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 11-22-16
Initials: SCW

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. 003 - 2-40mlVF No ID, collect date and time - placed by process of elimination. 11-22-16 SCW
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☑No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☐Yes ☐No ☑N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CLV **Date:** 11/22/16

Attachment F-3

Biopile Monitoring Logs

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL
BIOPILE MONITORING SUMMARY
Biopile #2016

Monitoring Point: **Ambient Air - Upwind**

Date	Vapor VOCs (ppm)
8/4/16	0.0
8/5/16	0.0
8/8/16	0.0
8/9/16	0.0
8/10/16	0.0
8/11/16	0.0
8/17/16	0.0
8/25/16	0.0
9/2/16	0.0
9/8/16	0.0
9/15/16	0.0
9/21/16	0.0
10/3/16	0.0
10/11/16	0.0
10/19/16	0.0
10/24/16	0.0
11/2/16	0.0
11/9/16	0.0

Monitoring Point: **Ambient Air - Downwind**

Date	Vapor VOCs (ppm)
8/4/16	0.0
8/5/16	0.0
8/8/16	0.0
8/9/16	0.0
8/10/16	0.0
8/11/16	0.0
8/17/16	0.0
8/25/16	0.0
9/2/16	0.0
9/8/16	0.0
9/15/16	0.0
9/21/16	0.0
10/3/16	0.0
10/11/16	0.0
10/19/16	0.0
10/24/16	0.0
11/2/16	0.0
11/9/16	0.0

Notes: NA

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL
BIOPILE MONITORING SUMMARY
Biopile #2016

Monitoring Point: Blower Inlet

Date	Vapor VOCs (ppm)	CH_4	O_2	Temperature (^{0}F)
8/4/16	1.0	0.0	17.3	70
8/5/16	1.0	0.0	18.3	68
8/8/16	1.0	0.0	18.2	64
8/9/16	1.0	0.0	19.1	72
8/10/16	1.0	0.0	19.4	68
8/11/16	1.0	0.0	19.5	72
8/17/16	1.0	0.0	19.8	64
8/25/16	1.0	0.0	19.9	65
9/2/16	1.0	0.0	19.0	52
9/8/16	1.0	0.0	20.0	68
9/15/16	1.0	0.0	19.2	58
9/21/16	1.0	0.0	19.2	60
10/3/16	1.0	0.0	20.2	48
10/11/16	1.0	0.0	20.0	58
10/19/16	1.0	0.0	18.9	49
10/24/16	0.0	0.0	19.8	44
11/2/16	0.0	0.0	19.9	51
11/9/16	0.0	0.0	19.4	34

Monitoring Point: Blower Outlet

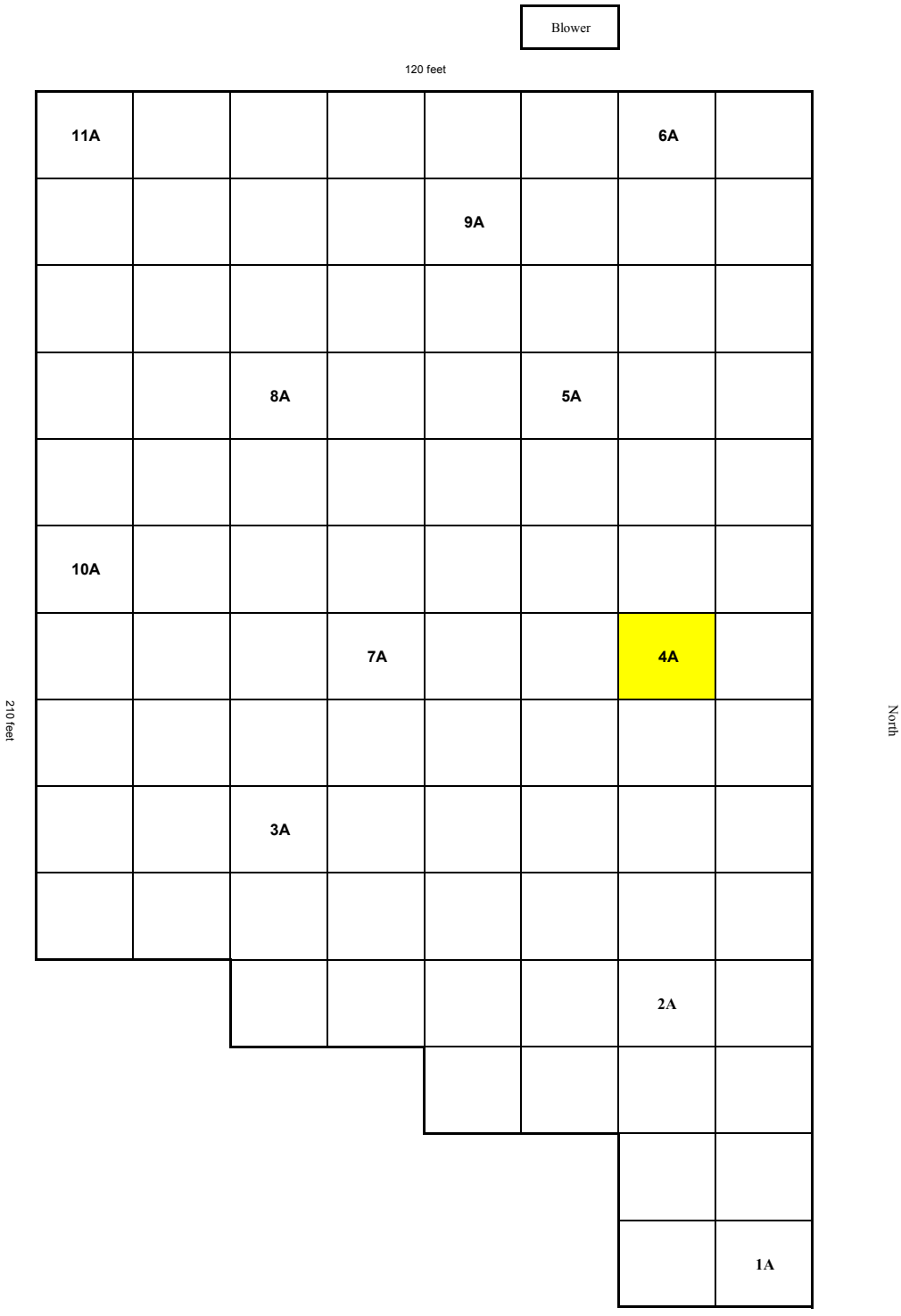
Date	Vapor VOCs (ppm)	CH_4	O_2	Temperature (^{0}F)
8/4/16	4.0	0.0	17.1	70
8/5/16	5.0	0.0	18.4	68
8/8/16	5.0	0.0	18.5	64
8/9/16	4.0	0.0	19.2	72
8/10/16	4.0	0.0	19.4	68
8/11/16	4.0	0.0	19.5	72
8/17/16	6.0	0.0	19.8	64
8/25/16	5.0	0.0	19.9	65
9/2/16	5.0	0.0	19.2	52
9/8/16	4.0	0.0	19.9	68
9/15/16	3.0	0.0	19.2	58
9/21/16	4.0	0.0	19.5	60
10/3/16	4.0	0.0	20.2	48
10/11/16	3.0	0.0	19.8	58
10/19/16	3.0	0.0	19.4	49
10/24/16	2.0	0.0	19.8	44
11/2/16	0.0	0.0	19.2	51
11/9/16	0.0	0.0	19.6	34

Attachment F-4

Biopile #2016 Sample Locations

FIGURE 1

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL BIOPILE
POST-TREATMENT SAMPLING NOVEMBER 2016
DEPTH A (0-6Feet)

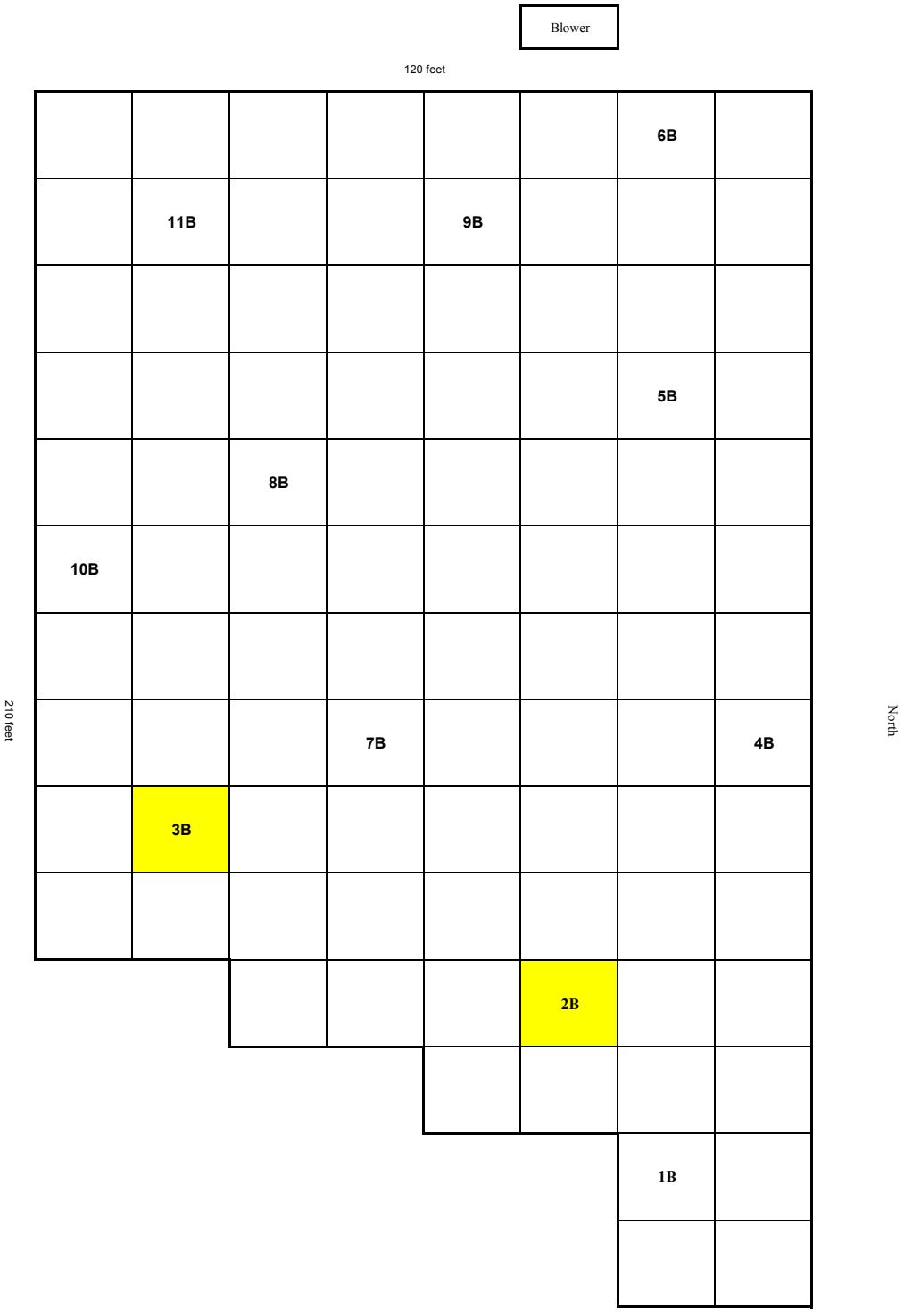


Notes: Biopile #2016 sampled on 11/21/16, Temperature 31^{0}F, Sunny, Wind: N@5-10 mph, Pressure: 30.33", Rel. Humidity 58%

BPdismantle2016

FIGURE 1

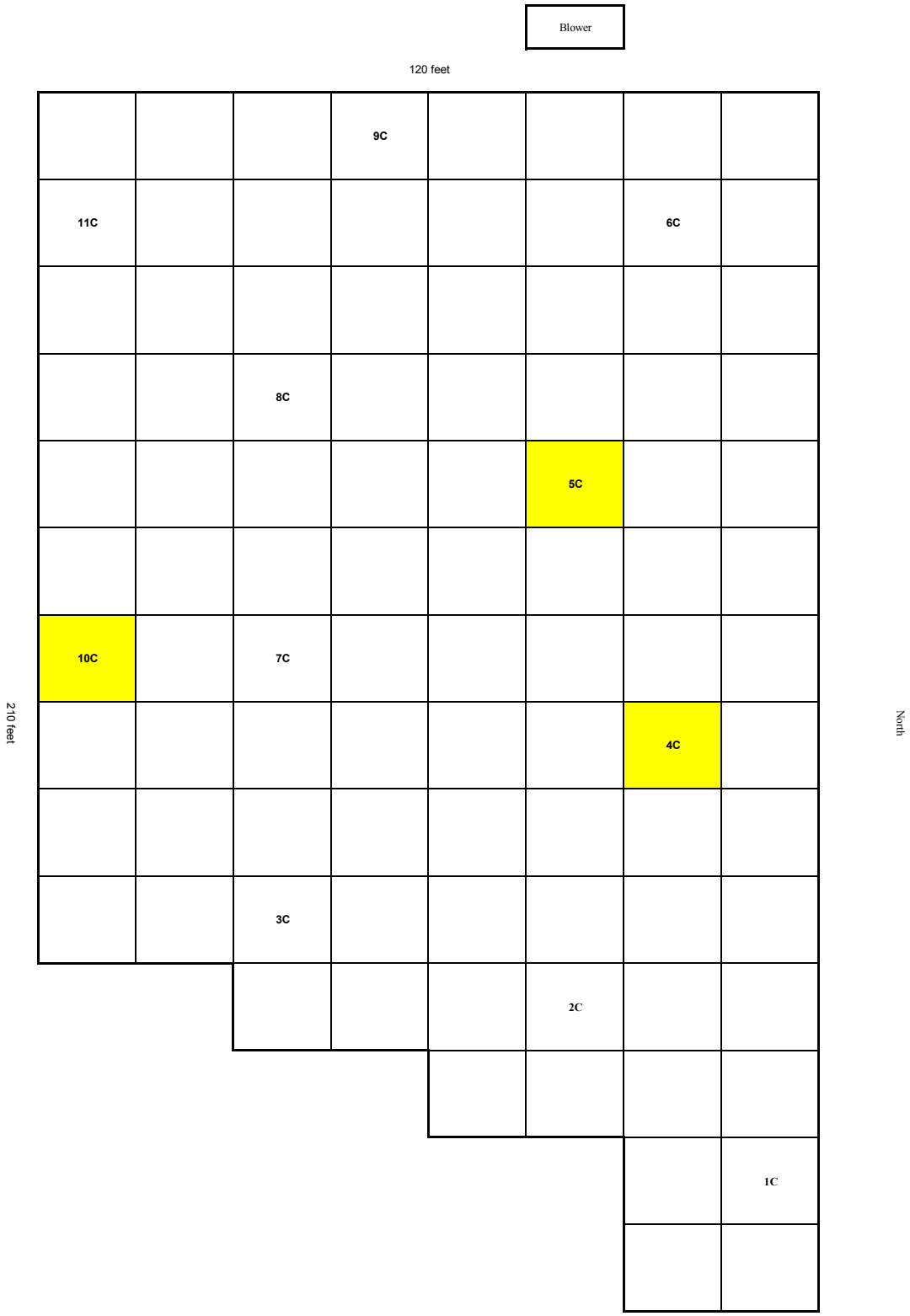
ADVANCED DISPOSAL SERVICE GLACIER RIDGE LANDFILL BIOPILE
POST-TREATMENT SAMPLING NOVEMBER 2016
DEPTH B (7-12 Feet)



Notes: Biopile #2016 sampled on 11/21/16, Temperature 31^{0}F, Sunny, Wind: N@5-10 mph, Pressure: 30.33", Rel. Humidity 58%

BPdismantle2016

FIGURE 1
ADVANCED DISPOSAL SERVICE GLACIER RIDGE LANDFILL BIOPILE
POST-TREATMENT SAMPLING NOVEMBER 2016
DEPTH C (13-18 Feet)



Notes: Biopile #2016 sampled on 11/21/16, Temperature 31^{0}F, Sunny, Wind: N@5-10 mph, Pressure: 30.33", Rel. Humidity 58%